TABLE C.3-7.18.Rms (CALCULATION OF NON-CANCER , OS REASONABLE MAXIMUM EXPOSURE

WELLS GEH SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium; Sediment

Exposure Point; River/Stream

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quollen
gestion													
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	м	2.5E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	1,4E+00	mg/kg	1.4E+00	mg/kg	ј. м ј	2.7E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)/luoranthene	1,8E+00	mg/kg	1,8É+00	mg/kg	l M	3.4E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Senzo(k)fluoranthene	1.8E+00	mg/kg	1.6E+Q0	mg/kg	· M	3.1E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	2.8E-01	.mg/kg	2.8E-01	mg/kg	l w l	5.4E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg] m	2,9E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A N/A
	Phenanihrene	1.7E+00	mg/kg	1.7E+00	mo/ko	М	3.2E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.6E-04
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	l M	6.7E-06	mg/kg-day	4.0E-04		. N/A	N/A	
	Arsenic	2.6E+01	ma/ka	2.6E+01	mg/kg	м	5.0E-05	mo/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1,7E-0;
	Çadmium .	8.1£+00	mg/kp	6.1E+00	mg/kg	- M	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	1.7E-0
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	ı m	6.7E-04	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	1.25-0
	Copper	3,4E+02	mg/kg	3.4E+02	mg/kg	l 🖁	6.5E-04	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	2.2E-0
	Lead		'			"	0.52-04	mg/kg-day	4.05-02	mg/kg-day	NA	N/A	1.6E-0
	Manganese	2.0€+03	mg/kg	2.0E+03	mg/kg	м	3.8E-03	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	М	1.1E-05	mg/kg-day	3.0E-04		N/A	N/A	5.4E-03
	Vanadium	3,4E+01	mg/kg	3.4E+01	mg/kg	i ii	8.5E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	3,8E-0
	(Total)					, "	0.52-05	піджід-ідаў	8/05-02	mg/kg-day	NA	N/A	7,2E-0: 5.0E-0
ermal									····		- ""		-
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3€+00	mg/kg	M .	2.7E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
•	Benzo(a)pyrene	1.4E+00	mg/kg	1,4E+00	mg/kg	M	2.9€-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	1.85+00	mg/kg	1.8E+00	mg/kg	M	3.7€-06	mg/kg-day	· N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	3.3E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2,8E-01	mg/kg	М	5.9E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1.2,3-cd)pyrene	1.5E+00	mg/kg	1.6E+00	mg/kg	М	3.1E-06	mg/kg-day	¹ N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.7E+00	mg/kg	1,7E+00	mg/kg	M	3.5€-06	mg/kg-day	2.0E-02	-rπg/kg-day	N/A	N/A	1.7E-0
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M I	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	4.2E-02
	Cadmium	6.1E+00	mg/kg	6.1E+00	ma/kg	i iii	9.7E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	-
	· (Total)		1 1			"		···A· JA-nay	1.06,00	ніўлеў-ову	1 1 1	IWA	9.7E-0:

(1) Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC - Exposure Point Concentration

TABLE C.5...(CALCULATION OF NON-CA: HAZARDS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timetrame: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: River/Stream

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Roule EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
ngestion			1						. ,)		· · · · · · · · · · · · · · · · · · ·
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	м	9.2E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Senzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	Mr-	1.0≅-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	1.3E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	1.1€-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Olbenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M	2.0€-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5€+00	mg/kg	м	1.1E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	1.2E-06	mo/kg-day	2.0E-02	mg/kg-day	N/A	N/A	5.9E-05
	Aritimony	3.5€+00	mg/kg	3.5€+00	mg/kg	M	2.5E-06	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	6.3E-03
	Arsenic	2.6E+01	mg/kg	2,6E+01	mg/kg	M	1,9E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	6.3E-02
	Cadmlum	6.1E+00	mg/kg	6,1E+00	mg/kg	м .	4.3E-06	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	4.3E-03
	Chromium	3.5E+02	mg/kg	3.5€+02	mg/kg	м	2.5E-04	mg/kg-day	3.0€-03	mg/kg-day	N/A	N/A	8.4E-02
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	м .	2.5E-04	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	6.1E-03
	Lead		1		* *			• • •		1 /		1	
	Manganese	2.0E+03	mg/kg	2.0≦+03	mg/kg	м	1.4E-03	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	2.0E-02
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	м	4.3E-07	mp/kp-day	3,0E-04	mg/kg-day	N/A	N/A	1.4E-03
	Vanadium	3,4E+01	mg/kg	3.4E+01	mg/kg	M	2.4E-05	mg/kg-day	9,0E-03	mg/kg-day	N/A	N/A	2.7E-03
	(Total)			VI.2 VI	11196119	,,,			0.02.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1.98-01
2ermal			. ,										
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	2.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Senza(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	2.2E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Senzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	м	2.8E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	М	2.5E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anihraçene	2.8⊑-01	mg/kg	2.8E-01	mg/kg	м	4.4E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrane	1.5E+00	mg/kg	1.5E+00	mg/kg	М	2.4E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	м	2.65-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.3E-04
	Arsenic	2,6E+01	mg/kg	2.6E+01	mg/kg	. М	9.5E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	3.2E-02
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	7.3E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	7.3E-02
	(Total)							[1.0E-01
	. ` `				·	}				1			

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Hazard Quollent = Non-Cancer Intake / Reference Dose

TABLE C.3-7.19. Pared CALCULATION OF NON-CANCER REASONABLE MAXIMUM EXPOSURE

WELLS GAH SUPERPUND SITE OU3

Scenario Timeframe: Current/Future Medium: Şediment

Exposure Medium: Sediment Exposure Point: Wetland

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Médium. EPC . Value	Medium EPC Unite	· Route EPC Value	Roule EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotlen
ngestion						-							
	Senzo(s)anthracens	3.82+00	mg/kg	3.8E+00	mg/kg	M	1.9E-07						
	Banzo(a)pyrana	3.2E+00	mg/kg	3.2E+00	mg/kg	М .	1.6E-07	mg/kg-day πg/kg-day	N/A	N/A	N/A	N/A	N/A
	Senzo(b)fluoranthene	5.0E+00	mg/kg	6.0E+00	mg/kg	M M	3.1E-07		N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9,85+00	mg/kg	9.6E+00	ma/ko	м м	4.9E-07	mg/kg-day mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5 E- 01	mg/kg	3.5E-01	mg/kg	M	1.8E-08	mg/kg-day mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+QQ	mg/kg	1.7E+00	mg/kg	l m	8.5E-06		N/A	N/A	N/A	N/A	N/A
	Phenanihrane	1.25+01	mg/kg	1.2E+01	mg/kg	M M	6.0E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	1					'''	0.02-07	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	3.08-05
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	. м	1.35-08	mg/kg-day	2,0⋶-05	. mg/kg-day	N/A	N/A	6.8E-04
	Апитопу	1.02+00	mo/ka	1.0E+00	mg/kg	M	605.00	1					
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M I	5.3E-08	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	1.3E-04
	Caomium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day.	N/A	N/A	5.6E-03
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	M	1.1E-07	mg/kg-day	1.0E-03	mg/kg-day	, Ņ/A	N/A	1,1E-04
	Copper	9.3E+01	marka	9.3E+01	ma/kg		2.18-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	7.0E-03
	Lead			9.22.701	mg/kg	M	4.88-06	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.2E-04
	Manganese	Z.1E+02	Mg/kg	2.1E+02	mg/kg	м			l				
	Mercury	7.1E-01	mg/kg	7.1E-01	1		1.1E-05	mg/kg-day	7.0E-02	mo/kg-day	N/A	N/A	1.5E-04
	Variation	9,9E+01	mg/kg	9.9E+01	mg/kg mg/kg	M M	3.6E-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1,2E-04
	(Totat)			\$10E 101	шұлқу	Μ [5,0E-06	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	5.6E-04
rmai	· · · · · · · · · · · · · · · · · · ·			-									1.46-02
	Benzg(s)anthracene	3.8E+00	mg/kg	3.8£+00	mo/ka	м		· ·	İ				
	Senzo(s)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	ii ii	2.0E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)/fluoranthene	6.0E+00	mg/kg	8.02+00		M	1.7E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)/luoranthene	9.6E+00	mg/kg	9.8E+00	mg/kg	M	3,2E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	5.1E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	м	1.85-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mo/ko	1.2E+01	mg/kg	M	9.0E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	1			1,26401	mg/kg	м	6.2E-07	mg/kg-day	2.0E-02	mg/kg-day	N/A	· N/A	3.1E-05
	Aroclor 1248	2.6E+01	mg/kg '	2.6E-01	mg/kg	м	1.5E-08	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	7.4E-04
	Arsenic	3.3E+01					Í		ľ		j	ł	·
	Cadmium	2.2E+00	mg/kg	3.3E+01	mg/kg	м	4.0E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.3E-03
	(Total)	2.45700	mg/kg	2.2E+00	mg/kg	M	8.8E-09	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	8.8E-04
	(OCEN)					. #	j	1	<i>'</i>		1	<u> </u>	3.05-03

N/A = Not Applicable

EPC = Exposure Point Concentration

TABLE DOWN CALCULATION OF NON-CALL HAZARDS CENTRAL TENDENCY

WELLS GAH SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium; Sediment Exposure Medium: Sediment

Exposure Point: Wetland Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	intake (Non-Cancer) Units	Referençe Dose	Reference Dose Units	Reference Concentration	Reference Concentration Unita	Hazard Quotient
ngeation		فستنصف فالأطال فالمناد الالماء								 			
	Benzo(s)anthracene	3.8€+00	mg/kg ·	3.85+00	mg/kg	M	9,7E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(s)pyrens	3.2E+00	mg/kg	3.25+00	mg/kg	, м	8.1E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	8.0E+00	mg/kg	6.0E+00	mg/kg	М	1.5E-07	mg/kg-day	N/A	N/A .	N/A	N/A	N/A
-	Benzo(k)fluoranthane	9.6E+00	mg/kg	9,6E+00	mg/kg	м	2.4E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E+01	mg/kg	3,5E-01	mg/kg	. м	5.9E-09	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	4.3E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1,2E+01	mg/kg	M	3.08-07	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.56-05
	Arodor 1248	2.6E-Q1	mg/kg	2,65-01	mg/kg] M	6.6E-09	mg/kg-day	2.05-05	mg/kg-day	N/A	N/A	3.3E-04
	Antimony	1,0E+00	mg/kg	1.0E+00	mg/kg	M	2.7E-08	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	8.7E-05
	Arsènic	3.3E+01	mg/kg	3.3E+01	mg/kg	м	8.3E-07	mg/kg-day	3,0€-04	mg/kg-day	N/A	N/A .	2.8E-03
	Cadmium	2.25+00	mg/kg	2.2E+00	mg/kg	M	5.5E-08	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	5.5E-05
	Chromium	4.1E+02	mg/kg	4,1E+02	mg/kg	М. 1	1.0E-05	mg/kg-day	3.0E-03	mo/kg-day	N/A	N/A	3.5E-03
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M M	2.4E-06	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	5.9E-05
	Lead		, ,	'	, ,	1		1 ' ' '					
	Manganese	,2,1E+02	mg/kg	2.1E+02	ma/ka	M.	5.3E-06	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	7,85-05
	Morcury	7,1E-01	mg/kg	7,16-01	ma/kg	М	1.8E-Q8	mg/kg-day	3,0€-04	mg/kg-day	. N/A	N/A	6.0E-05
	Venadium	9.9E+01	mg/kg	9.9E+01	mg/kg	м	2.5E-06	mg/kg-day	9,06-03	mg/kg-day	N/A	N/A	2.8E-04
	(Total)												7.2E-03
ermel				_							4114	1154	
	Benzo(s)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	M -	2.0E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.7E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	5.0E+00	mg/kg	6.0E+00	mg/kg	М	3.2E-07	mg/kg-day	. N/A	N/A	N/A	N/A	N/A
	Benzo(k)flugranthene	9.6E+00	mg/kg '	9.6E+00	mg/kg	M	5.1E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	1.85-08	mg/kg-day	N/A	N/A	NVA	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1,7E+00	mg/kg	1.7E+00	mg/kg	M	9.02-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.28+01	mg/kg	M	6.25-07	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	3.1E-05
	Aroclor 1248	2.6E-Q1	mg/kg	2.65-01	mg/kg	м	1.5E-08	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	7.4E-04
	Arsenic	3,3E+01	mg/kg	3.3E+01	mg/kg	м	4.0E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.3E-03
	Cadmium	2.2E+00	mg/kg	2,2E+00	mg/kg	М -	6.8E-09	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	8.8E-04
	(Total)				• • •			••••		' ' '			3.0E-03

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE C,3-7.20.N. (CALCULATION OF NON-CANCER N. S REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point; Wetland

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
ngestion		·							·				مناه المالية المناجلية ا
	8enzo(a)anthracene	3.8E+00	mg/kg	3,8E+00	mg/kg	м	1,8E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Senzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	· M	1.5E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	М	2.92-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	м	4.6E-06	mg/kg-day	N/A	N/A	N/A	. N/A	N/A
	Dibenz(s,h)snthrzcene	3.5E-01	mg/kg	3.5E-01	mg/kg	м	1,76-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	indeno(1,2,3-cd)pyrene	1.7#+00	/ng/kg	1,7E+00	mg/kg	M	8,12-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	м	5.8E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	2.8E-04
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	М	1.25-07	mg/kg-day	2,0E-05	mg/kg-day	N/A	N/A	6.2E-03
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	M	5.0E+07	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	1,2E-03
	Arsenic	3.3E+01	mg/kg	3.36+01	mo/ka	M	1.6E-05	ma/ka-day	3.0E-04	mg/kg-day	N/A	· N/A	5.2E-02
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.0E-06	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	1.0E-03
	Chromium	4.1E+02	mg/kg	4.1E+02	ma/ka	м .	1.9E-04	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	6.5E-02
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	4.4E-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.1E-03
	Lead		""	,		"		1					1
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	м -	1.0E-04	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	1.4E-03
	Mercury	7,1E-01	mg/kg	7.1E-01	mg/kg	 M	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.1E-03
	Vanadium	9.9E+01	mo/kg	9.9E+01	mg/kg	м	4.7E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	5.2E-03
	(Total)	VIVE 101		0,02					0.00-20				1.3E-01
Dermai			<u> </u>		<u> </u>								
	Benzo(a)anthracene	3,8E+00	mg/kg	3.8E+00	mg/kg	M	2.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.25+00	mg/kg	3.2€+00	mg/kg	М	1.7E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Senzo(b)fluoranthene	6.0E+00	mg/kg	6,0E+00	mg/kg	м	3.1E-08	mo/kg-day	N/A	N/A	N/A	N/A	N/A
	Senzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	м	5.0E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	м	1.8E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	ma/ka	1.7E+00	ma/ka	M	8.8E-07	mo/ko-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1,25+01	mg/kg	1.2E+01	mg/kg	М	6.1E-08	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	3.0E-04
•	Aroclor 1248	2,8E-01	mg/kg	2.6E-01	mg/kg	м	1.5E-07	mg/kg-day	2,0E-05	mg/kg-day	N/A	N/A	7.3E-03
	Araenić	3,3E+01	mg/kg	3.3E+01	mg/kg	м .	3.9E-06	mg/kg-day	3,0E-04	mg/kg-day	N/A .	N/A	1,3E-02
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	м	8.8E-08	mg/kg-day	1.0E-05	ing/kg-day	N/A	N/A	8.6E-03
	(Total)												2.9E-02

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation,

N/A * Not Applicable

EPC = Exposure Point Concentration

Hazard Quotient = Non-Cancer Intake / Reference Dose

WELLS GAH SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment

Exposure Point: Wetland

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Routa EPC Value	Roule EPC Units	Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intaks (Non-Cancer) Units	Referença Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
ngestion													-
	Benzo(a)anthracene	3.8E+00	mg/kg	3.85+00	mg/kg	(м	9.15-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrens	3.2E+00	mg/kg	3.2E+00	mg/kg	' м	7.68-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6,0E+00	mg/kg	6,0E+00	mg/kg	М	1.4E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.8E+00	mg/kg	8.8E+00	mg/kg	. м	2.3E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)enthrecene	3.5E-01	mg/kg	3.5E-01	mg/kg	м	8.3E-08	mo/kg-day	. N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrens	1.7E+00	mg/kg	1.7E+00	mg/kg	М	4.0E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1,2E+01	mg/kg	м	2.8E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.4E-04
	Aroclor 1248	2.8E-01	mg/kg	2,65-01	mg/kg	м	.8.2€-08	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	3.1E-03
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	м	2,5E-07	mg/kg-day	4,0E-04	mo/kg-day	N/A	N/A	6.2E-04
	Arsenic	3.3E+01	mg/kg	3,3E+01	mg/kg	м	7.8E-08	mg/kg-day	3.0E-04	mo/ko-day	N/A	N/A	2.8E-02
	Cadmium	2.2E+00	mg/kg	2.2E+00	ma/ka	м	5,1E-07	mg/kg-day	1.0€-03	mg/kg-day	N/A	N/A	5.1E-04
	Chromium	4.1E+02	marka	4.1E+02	mg/kg	' м	9.7E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	3.2E-02
	Copper	9.3E+01	ma/ka	9.3E+01	mg/kg	м	2,2E-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	5.5E-04
	Lead			-,			4		4,000				-,
	Manganese	2.1E+02	mg/kg	2,1E+02	mg/kg] м [5.0E-05	mo/kg-day	7.0E-02	mg/kg-day	· N/A	N/A	7.1E-04
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	ļ. m.	1.7E-07	mg/kg-day	3,0€-04	mg/kg-day	N/A	N/A	5,6€-04
	Vanadium	9,9E+01	mg/kg	9.95+01	mg/kg	, iii	2.3E-05	mo/ko-day	9.0E-03	mg/kg-day	N/A	N/A	2.6E-03
	(Total)			-1					****			ļ	6.7E-02
ermal													
	Benzo(a)anthracene	3,85+00	. mg/kg	3.8E+00	mg/kg	м	2.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(#)pyrene	3.2E+00	mg/kg	3.2E+00	സർഗില	M	1.7E-06	mg/kg-day	N/A	· N/A	' N/A	N/A	N/A
	Senzo(b)fluoranthene	6.0E+Q0	mg/kg	6.0E+00	mg/kg	l M	3.1E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Senzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg) M	5.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Olbenz(a.h)anthracens	3.5E-01	mg/kg	3.5E-01	mg/kg	м	1.85-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	indeno(1,2,3-cd)pyrane	1,7E+00	mg/kg	1.7E+00	mg/kg	м	8.82-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1,25+01	mg/kg	1,2E+01	mg/kg] м	6.1E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	3.0E-04
	Arodor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	м	1.5E-07	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	7.3E-0
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	M I	3.9E-06	mg/kg-day	3.0E+04	mg/kg-day	N/A	N/A	1.3E-0
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	8.8E-08	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	8.6E-0
	(Total)				* *	,		•••					2.9E-0

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Hazard Quotient # Non-Cancer Intake / Reference Dose

TABLE C.3-7.21.RWE (CALCULATION OF NON-GANGER M. ... S REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment

Exposure Point: Wetland

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotlent
gestion		•									******		
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	м	7.85-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3,2E+00	mg/kg	3.2E+00	mg/kg	м	6.5E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthena	8.0E+00	mg/kg	6.0E+00	mg/kg	м	1.25-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.65+00	mg/kg	9.6E+00	mg/kg	м	2.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Olbenz(a,h)anthracens	3.5E-01	mg/kg	3.5E-01	mg/kg	, м	7.1E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1,7E+00	mg/kg	M	3.5E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.25+01	mg/kg	1.2E+01	mg/kg	M·	2,46-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.2E-04
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	ma/kg	. м	5.3E-08	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	2.76-03
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	м	2.1E-07	mg/kg-day	4,0E-04	mg/kg-day	N/A	N/A	5,3E-04
	Araenic	3,3E+01	mg/kg	3.3E+01	mg/kg	M I	. 6.7E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.25-02
	Cadmium	2,26+00	mg/kg	2.2E+00	ma/ka	l m	4.4E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	4.4E-04
	Chromium	4.12+02	ma/ka	4.1E+02	mg/kg	м	8.3E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	2.8E-02
-	Copper	9.3E+01	ma/ka	9.3E+01	ma/kg	. м	1.9E-Q5	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	4.82-04
	Lead	•	1 1		• •							1	4,06,04
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	I м ∫	4.3E-05	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	6.1E-04
	Mercury	7,1E-01	ma/ka	7.1E-01	mg/kg	м	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	4.8E-04
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	м	2.0E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	2.2E-03
	(Total)				• -						<u> </u>		5.8E-02
şımşl											 		••
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	м	8.1E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(e)pyrane	3.2E+00	mg/kg	3,2E+00	mg/kg	Mi	6.7E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Senzo(b)Ruoranthene	6,0E+00	mg/kg (8.0E+00	mg/kg	м	1.3E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
-	Senzo(k)fluoranthens	9.8E+00	mg/kg	9.6E+00	mg/kg	м	2.0E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Olbenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	м	7.4E-08	mg/kg-day	N/A	· N/A	. N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrana	1.75+00	mg/kg	1.7E+00	mg/kg	М	3.6E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	м	2.5E-06	mg/kg-day	2.0€-02	mg/kg-day	N/A	N/A	1.2E-04
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	м	5.9E-06	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	3.0E-03
	Arsenic	3.3E+01	mg/kg	3.35+01	mg/kg	м	1.6E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5.3E-03
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	м 1	3.5E-08	mg/kg-day	1,05-05	mg/kg-day	N/A	N/A	3.5E-03
	(Total)												1.2E-02

(1) Medium-Specific (M) EPC selected for hezerd calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

TABLE COST (
CALCULATION OF NON-CA HAZARDS
CENTRAL TENDENCY

WELLS GAH SUPERFUND SITE QU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment

Exposure Point: Wetland

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Unite	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotlent
gestion													
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	М	2.9E-07	mg/kg-day	N/A		· N/A	N/A	
	Benzo(s)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	i mi l	2.4E-07	mg/kg-day	N/A	N/A N/A	N/A	N/A	N/A
	Benzo(b)fluorenthene	6.QE+00	mg/kg	6.0E+00	mg/kg	l m	4.6E-07	mg/kg-day	N/A		N/A	N/A	N/A
	Benzo(x)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	! m	7.3E-07	mg/kg-day	N/A	N/A	N/A	N/A N/A	N/A
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E+01	mg/kg	M	2.7E-08	mg/kg-day	N/A	N/A	N/A	N/A N/A	N/A
	Indena(1,2,3-cd)pyrene	1.7E+00	ma/ka	1.75+00	mg/kg	M	1.3E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrens	1.2E+01	mg/kg	1.2E+01.	mg/kg	м	8.9E-07	'	1	N/A			N/A
			']			0.85-01	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	4.5E-05
	Aroclor 1248	2.8E-01	mg/kg	2.6E-01	mg/kg	м	2.0E-08	mg/kg-day	2.0€-05	mg/kg-day	N/A	N/A	1.0≅•ó3
	Antimony .	1.0E+00	mg/kg	1.0E+00	mg/kg	м	8.0E-0B						
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg :	M	2.58-06	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	2.0€-04
	Cadmium	2.2E+00	mg/kg	2.25+00	mg/kg	м		mg/kg-day	3.0E-04	mg/kg-dgy	N/A	N/A	8.3E-03
	Chromium	4.1E+02	mg/kg	4.16+02	mg/kg	M	1.7E-07	mg/kg-day	1.0E-03	നg/kg-day	N/A	N/A	1.7E-04
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	3.1E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	1.0€-02
	Lead		"	0.02.01	пфи	M	7,16-06	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.8E-04
	M≊ngahese	2.1E+02	mg/kg	2.1E+02	mg/kg	м	1.6E-05						
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	M	5.4E-08	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	2,3E-04
•	Vanadium	9.9E+Q1	mg/kg	8.8E+01	mg/kg.	M M	7,6E-06	mg/kg-day	3.0E-04 9.0E-03	mg/kg-day	N/A N/A	N/A	1.8 E- 04
	(Total)	•				<i>""</i>	/.02-00	mg/kg-day	9,02,03	mg/kg-day	NA	N/A	8.4E-04 2.2E-02
rmal	Benzo(a)anthracena												
	Benzo(a)pyrena	3.82+00	mg/kg	3.86+00	mg/kg	м	6.0E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Senzo(b)fluoranthene	3.2E+00	mg/kg	3.2E+00	mg/kg '	M	5.0E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	5.0E+00	mg/kg	5.0E+00	mg/kg	м	9.6E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a.h)anthracene	9.88+00	mg/kg	9.66+00	mg/kg	M	1.5E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	3.5E-01	mg/kg	3.5E-01	mo/kg	M	5.5E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrane	1.7E+00	mg/kg	1.7E+00	mg/kg	,M	2.7長+07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	r nerialitare	1.2E+D1	mg/kg	1,2E+01	mg/kg	м	1.9E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	9.3E-05
	Aredor 1248	2.6E-01	mg/kg	2,65-01	mg/kg	м	4.5E-08	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	2.2E-03
	Arsenic	3,3E+01	mg/kg	3.3E+01	mg/kg	м	105.00	I		•			
	Cadmium	2,2€+00	mg/kg	2.2E+00	mg/kg	M	1.2E-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	4,0E-03
•	(Total)		11794119	2.26-00	HENRY	M	2.6E-08	mg/kg-day	1,06-05	mg/kg-day	N/A	N/A	2.8E+03
	1		1	ì	l	1	1	ľ		}		i i	8.9E-03

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Hazard Quotient = Non-Cancer Intake / Reference Dose

WELLS GAH SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment

Exposure Point: Wetland

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium - EPC Units	Roule EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Unite	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotlen
rgestion		And the second second second second											
	Senzo(a)anthracene	3.85.+00	ma/ka	3.8E+00	mg/kg	м	7.25-06				l Ì		
	Benzo(a)pyrene	3.2€+00	mg/kg	3.2E+00	mg/kg	ı m		mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranihene	6.0E+00	mg/kg	6.0E+00	mg/kg	M I	6.1E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.8E+00	mg/kg	9.6E+00	mg/kg	M	1.1E-05	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(a,h)anthracene	3,5E-01	mg/kg	3.5E-01	,	1	1.8E-05	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	6.6E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1.2E+01			mg/kg	м	3.2E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
		.,22.01	mg/kg	1,2E+01	mg/kg	M	2.2E-05	пд ко-сау	2.0E-02	mg/kg-day	N/A	N/A	1,1E-03
	Araclor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	• м	5.08-07	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	2.55-02
	Antimony	1,0E+00	ma/ka	1.0E+00			`	ļ					
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	м	2.0E-06	mg/kg-day	4,0E-04	mg/kg-day	N/A	N/A	5.0E-03
	Cadmium	2.2E+00	mg/kg		mg/kg	М	6.2E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.1E-0
	Chromium	4.1E+02		2.2E+00	mg/kg	м	4.1E-08	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	4,1E-0
	Copper	9.3E+01	mg/kg	4.1E+02	mg/kg	м	7.8E-04	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	2.6E-01
	Lead	8,35,401	mg/kg	8.3E+01	mg/kg	M	1.8E-04	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	4.4E-03
	Manganese -	2.15+02]	į	`	ł	- ,		1	
	Mercury	7.1E-01	mg/kg	2.1E+02	mg/kg	M	4.0E-04	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	5.7E-03
	Vanadium		mg/kg	7.1E-01	úð∖kā	м	1.36-06	mg/kg-day	3.0€-04	mg/kg-day	N/A	· N/A	4.5E-03
	(Total)	9.9E+01	mg/kg	9.9E+01	mg/kg	м	1.9E-04	mg/kg-day	9.05-03	mg/kg-day	N/A	N/A	2.1E-02
			1	ļ				•			}	Ī	5.4E-01
rmał													
	Senzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	м	7.9E-06	mg/kg-day	N/A		N/A		
	Benzo(a)pyrene	3,25+00	mg/kg	3.2E+00	mg/kg	м -	6.6E-06	mg/kg-day	1	N/A	N/A	N/A	. N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M I	1.3E-05	mg/kg-day	N/A	N/A	N/A	N/A	N/A
•	Benzo(k)fluoranthene	9.62+00	mg/kg	9.6E+00	mg/kg	й	2.0E-05		N/A	N/A		N/A	N/A
	Dibenz(g,h)gnthrecene	3.5E-01	mg/kg	3,5E-01	mg/kg	- "	7.3E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.5E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrens	1.2E+01	mg/kg	1.2E+01	mg/kg	, , , , , , , , , , , , , , , , , , ,		mg/kg-day	N/A	N/A	N/A	N/A	N/A
					(13grAg)	· · ·	2.4E-05	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	1.2E-03
	Arocior 1248	· 2.6E-01	mg/kg	2.6E-01	mg/kg	м	5.6E-07	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	2.9E-02
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	м	1.6E-05		707.1		l		
	Cadmium	2.2€+00	mg/kg	2.2E+00	mg/kg	m I	3.5E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5,2E-02
	. (Total)	•					V.9E-V1	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	3.5E-02
	<u>1 </u>		i				ĺ		Ī	i			1.2E-0

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Hazard Quotient = Non-Cancer Intake / Reference Dose

TABLE COMMENT OF HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment

Exposure Point: Welland

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Roule	Chemical of Potential Concern	Medium EPC Value	Medium EPG Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	intaks (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
ngestion							****		***************************************				
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	, м	2,7E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	м	2,3E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	rng/kg	м	4.3E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.8E+00	mg/kg	9.6E+00	mg/kg	м	6,8E-06	mg/ko-day	N/A	N/A	N/A	N/A	N/A
	Oibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	м	2.5E-07	mp/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	м	1.2E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrene	1,2E+01	mg/kg	1.25+01	mg/kg	м	8.3E-06	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	4.2E-04
	Arodor 1248	2,6E-01	mg/kg	2.6E-01	mg/kg	м	1.9E-07	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	9,3E-03
	Antimony *	1.0E+00		4.42.44	_					,	[0,42.00
	Arsenic	3.3E+01	mg/kg	1.05+00	, mg/kg	м	7.5E-07	mg/kg-day	4,0E-04	mg/kg-day	N/A	N/A	1.9年-03
	Cadmium		mg/kg	3.3E+01	mg/kg	м	2,35-05	mg/kg-day	3.0€-04	mg/kg-day	N/A	N/A	7.8E-02
	Chromium	2.2E+00	mg/kg	2.2E+00	mg/kg	М	1.5E-06	mg/kg-day	1.05-03	mg/kg-day	N/A	N/A	1.5E-03
	Copper	4.1E+02	mg/kg	4.1E+02	mg/kg	M	2,9E-04	mg/kg-day	3,0E-03	mg/kg-day	N/A	N/A	9.7E-02
	Lead	9,3E+01	mg/kg	9.3E+01	mg/kg	м	8,7E-05	mo/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.7E+03
	Manganese	2 (5,00		*	_			1				į	
	Mercury	2.1E+02 7.1E-01	mg/kg	2,15+02	mg/kg	м	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	. N/A	N/A	2.1E-03
	Vanedium		mg/kg	7.1E-01	mg/kg	м	5.1E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.7E-03
	(Total)	9.9E+01	mg/kg	9.9€+01	mg/kg	м	7.0E-05	mg/kg-day	9.05-03	mg/kg-dey	. N/A	N/A	7.8E-03 2.0E-01
ermal					-,,								
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	м	5.92-06	mg/kg•day	N/A	N/A	N/A	N/A	N/A
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	м - 1	5.0E-08	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Senzo(b)fluoranthena	6.0E+00	mg/kg	6.0E+00	mg/kg	м	9.4E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Benzo(k)fluoranthene	9.65+00	. mg/kg	9.6E+00	mg/kg ⁻	м	1.5E-05	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Dibenz(s.h)anthracens	3,5E-01	mg/kg	3.5%-01	mg/kg	. м	5.4E-07	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.75+00	mg/kg	м	2.6E-06	mg/kg-day	N/A	N/A	N/A	N/A	N/A
	Phenanthrens	1:25+01	mg/kg	1.2E+01	mg/kg	. м	1.8E-05	mg/kg-day	2.0E-02	mg/kg-day	N/A	N/A	9.1E-04
	Arodor 1248	2.6E-01	mg/kg	2.66-01	mg/kg	м	4.4E-07	mg/kg-day	2,08-05	mg/kg-day	N/A	N/A	2.28-02
	Arsenic	3.3E+01	mg/kg	3,3E+01	mg/kg	м	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	3,98-02
	Cadmium	2.2E+00	mg/kg	2.2E+00	ma/kg	м	2.6E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	3,96-02 2,6E-02
	(Total)		'			· · · · · · · · · · · · · · · · · · ·		-Hand-ray	1.00,00	ung ng nuay	,,,,,,	'''' È	8.8E-02

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Hazard Quotlent = Non-Cancer Intake / Reference Dose

TABLE C.3-7.23.RME CALCULATION OF NON-CANCER . . . ADS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment

Exposure Point: Pond/Lake

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPÇ Vajue	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hezerd Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotlent
gestion									<u></u>				·
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	М	7.1E-08	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	1,8E-04
	Cadmium	3,0€+01	mg/kg	3.0E+01	mg/kg	M	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5.1E-03
	Chromium	2.95+00	mg/kg	2.9E+00	mg/kg	M I	1.5E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	1.5E-04
	1	1.6E+02	mg/kg	1.6E+02	mg/kg	M	7.9E-06	mg/kg-day	3,0E-03	mg/kg-day	N/A	N/A	2.6E-03
	Copper Lead	6,6E+Q1	mg/kg	6.6E+01	mg/kg	M	3,3E-06	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	8.4E-05
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	4.3€-05	mg/kg-day	7,0E-02	mg/kg-day	N/A	N/A	6.1E-04
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	М.	1,85-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5.9E-05
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	2.6E-06	mg/kg-day	9.0€-03	mg/kg-day	N/A	N/A	2.9E-04
	(Total)												9.1 E- 03
ermal	Arsenic	3,0€+01		3.0E+01							N/A	N/A	
	Cadmlum	2.9E+00	mg/kg	2.9E+00	mg/kg) <u>M</u>	3,6E-07	mg/kg-day	3.0€-04	mg/kg-day			1.2E-03
	(Total)	\$; \$ C+00	mg/kg	2.92+00	mg/kg	M	1,2E-08	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	1.2E-03 2.4E-03

(1) Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

TABLE C. T CALCULATION OF NON- CER HAZARDS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: Pond/Lake

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure Roule	Chemical of Potential Concem	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	intake (Non-Cancer) Units	Reference Dase	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
gestion													.—;
	Antimony	1.45+00	mg/kg	1.4E+00	.mg/kg	М	3.6E-08	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	8.9E+05
	Arsenic	3.0E+01	mg/kg	3.0€+01	mg/kg	м	7.6E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.5E-03
	Cadmium	2.9E+00	mg/kg	2.95+00	mg/kg	ј м }	7.4E-08	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	7.4E+05
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	М	3.9E+06	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	1.3E-03
	Copper Lead	6.6E+O1	mg/kg	6.6E+01	mg/kg	М	1.7E-06	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	4,2E-05
	Manganese	8.4E+02	mg/kg .	6.4E+02	mg/kg	М	2.1E-05	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	3.0E-04
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	8.9E-09	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	3.0E-05
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	1.3E-06	mg/kg-day	9.0€-03	mg/kg-day	N/A	N/A	1.5E-04
	(Total)												4.5E-03
ermal							·						
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	М	3.6€-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.2E-03
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	м	1.2E-08	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	1.2E-03
	(Tolai)		1	{					•]			Γ	2.4E-03

(1) Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC # Exposure Point Concentration

TABLE C.3-7.24.Rm. (CALCULATION OF NON-CANCER HAL...OS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeirame: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: Pond/Lake

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Routa	Chemical of Potential Concern	Medium EPÇ Value	Medium EPC Units	Route EPC Value	Roule EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotlent
jeation											N/A	N/A	1.7E-03
	Antimony	1,4E+00	mg/kg	1.4E+00	rng/kg	М	6,6E-07	mg/kg-day	4,0E-04 3,0E-04	mg/kg-day	N/A	N/A	4,75-03
,	Arsenic	3.0€+01	mg/kg	3.0E+01	. mg/kg	М	1.4E-05	mg/kg-day	1.0E-03	mg/kg-day mg/kg-day	N/A	N/A	1.4E-03
	Cadmium	2.95+00	mg/kg	2.9E+00	mg/kg	M M	1,4E-06 7,4E-05	mg/kg-day mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	2.5E-02
	Chromium	1.6E+02	mg/kg	1.6E+02	mg/kg	M	3.1E-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	7.8E+04
	Copper Lead	6,6E+01	mg/kg	6.6E+01	mg/kg	, M	3,12-05	ing/kg-day	4,02-02	III GIAGAGA	1		
	Manganese	8.45+02	mg/kg	8.4E+02	mg/kg	M	4.0E-04	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	5.7E-03
• .	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	l m	1.7E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	5.5E-04
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	,	2,4E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	2.7E-03
	(Total)	0.22.77	11.00	0.4.4.01	THE PARTY	,,,							8.5E-02
ermal											N/A	N/A	1.2E-02
	Arsenic	3.0E+01	mg/kg	3,QE+01	mg/kg.	М	3.6E-06	mg/kg-day	3,0E-04	mg/kg-day	N/A	N/A	1.2E-02
	Cadmium	2,9E+00 .	mg/kg	2.9E+00	mg/kg	M	1.2E-07	mg/kg-day	1,0E-05	mg/kg-day	190	'*^	2,3E-02
	(Total)							1		1	1	1	4,35*02

(1) Medium-Specific (M) EPC selected for hexard calculation.

N/A . Not Applicable

EPC = Exposure Point Concentration

TABLE C.3-7 (CALCULATION OF NON-CALCULATION OF N

WELLS G&H SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: Pond/Lake

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotlent
igestion							****					× 2/11 = 40 45 4	
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	М	3.3E-07	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	8.3E+04
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	М	7.1E-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.4E-02
	Cadmium	2.95+00	mg/kg	2.9E+00	mg/kg	M	6.9E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	8.9E-04
	Chromium	1.6E+02	mg/kg	1,6E+02	mg/kg	М	3.7E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	1.2E-02
	Copper	6.6E+01	mg/kg	6.6E+01	mg/kg	М	1.62-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	3.9E-04
	Lead												
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	М	2.0€-04	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	2.8E-03
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M	8.35-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.85-04
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	1.2E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	1.4E-03
	(Total)												4.25-02
ermal													
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	3.6E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	1.25-02
	Cadmlum	2.9E+00	mg/kg	2,95+00	mg/kg	M	1,2E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	1.2E-02
	(Total)		1										2.3E-02
			<u> </u>				,	Total	Jarard Inday	l Across All Exp	neura Route	/Pathways	7E-02

(1) Medium-Specific (M) EPC selected for hazard calculation.

N/A * Not Applicable

EPC = Exposure Point Concentration

WELLS GAH SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: Pond/Lake

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Unite	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	intake (Non-Cancer)	Intake (Non-Cancer) Unite	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotlent
gestion		***************************************								·		•	
	Antimony	1,4E+00	· mg/kg	1.45+00	mg/kg	м [2.86-07	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	7.1E-04
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	6.1E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	2.0E-02
	Cadmium	2.9E+00	mg/kg	2,95+00	mg/kg	м	5.9E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	5.9E-04
	Chromium	1.6E+02	mg/kg	1.65+02	mg/kg	м	3.2E-05	mg/kg-day	3,0E+03	mg/kg-day	N/A	N/A	1,1E-02
	Copper Lead	6.6E+01	mg/kg	6.6E+01	mg/kg	М	1,3E-05	माg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	3.3E-04
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	м	1.7E-04	mg/kg-day	7,0E-02	mg/kg-day	N/A	N/A	2,45-03
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	м	7.1E-08	mg/kg-day	3,0E-04	mg/kg-day	N/A	N/A	2,4E-04
	Vanadium (Total)	5.2E+01	mg/kg	5.2E+01	mg/kg	м	1.0E-05	mg/kg-day	9.0 E- 03	mg/kg-day	N/A	N/A	1.2E-03 3.8E-02
erma)	· .				 								
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg .	м	1.5E-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	4.9E-03
	Cadmium	2.96+00	mg/kg	2.9E+00	mg/kg	M	4.7E-08 ·	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	4.7E-03
	(Total)		1					-			l i		9.6E-03

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC * Exposure Point Concentration

TABLE 03-7.1 CALCULATION OF NON-CANLLA HAZAROS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: Pond/Lake

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposurs Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Unite	Roule EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotlent
gestion													· · · · · · · · · · · · · · · · · · ·
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	M	1.1E-07	mg/kg-day	4.0E-04	mg/kg-day	N/A	N/A	2.7E+04
1	Arsenic	3,05+01	mg/kg	3.0E+01	mg/kg	М	2.3E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	7.6E-03
!	Cadmium	2,9E+00	mg/kg	2.9E+00	mg/kg	M	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	2.2E-04
	Chromium	1,6E+02	mg/kg	1.6E+02	mg/kg	М	1.2E-05	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	3.9E-03
	Copper	6,6E+01	mg/kg	6.6E+01	ту/ка	М	5.0E-08	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.3E-04
	Lead							 			1	i	
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	M	6.4E-05	mg/kg-day	7.0E-02	mg/kg-day	N/A	N/A	9.1E-04
	Mercury	3,5E-01	mg/kg	3.5E-01	mg/kg	М	2.75-08	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	· 8.9E-05
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	М	3.9€-06	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	4.4E-04
	(Tolai)			j									1.4E-02
ermal			 				·		,			-	
	Arsenic	3.0E+01	mg/kg	3,0E+01	mg/kg	М	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	3.6E+03
	Cadmium	2.95+00	mg/kg	2.9E+00	mg/kg	M	3.5E-08	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	3.5E-03
	(Total)		}					.			\ .		7.2E-03

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Hazard Quotient = Non-Cancer Intake / Reference Dose

CALCULATION OF NON-CANCE. __ARDS REASONABLE MAXIMUM EXPOSURE

WELLS G&M SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium; Sediment

Exposure Medium: Sediment

Exposure Point: Pond/Lake

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dase Units	Reference Concentration	Reference Concentration Units	Hazard Quotlent
gestlan	Antimony Arsenic Cadmium Chromium Copper Lead Manganese Mercury Vanadium (Totaf)	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	M M M M M	2.78-06 5.7E-05 5.5E-06 2.9E-04 1.2E-04 1.6E-03 6.6E-07 9.8E-05	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	4.0E-04 3.0E-04 1.0E-03 3.0E-03 4.0E-02 7.0E-02 3.0E-04 9.0E-03	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A	6.6E-03 1.9E-01 5.5E-03 9.8E-02 3.1E-03 2.3E-02 2.2E-03 1.1E-02 3.4E-01
	Arsenic Cadmium (Total)	3.0E+01 2.9E+00	mg/kg mg/kg	3.0E+01 2.9E+00	mg/kg mg/kg	M M	1,4E-05 4,6E-07	mg/kg-day mg/kg-day	3.0E-04 1.0E-05	mg/kg-day mg/kg-day	N/A N/A	N/A N/A	4.8E-02 4.6E-02 9.4E-02

N/A = Not Applicable

EPC = Exposure Point Concentration

TABLE C.S. CALCULATION OF NON-C... LER HAZARDS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sadiment

Exposure Medium: Sediment Exposure Point: Pond/Lake

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medlum €PC Value	Medium EPC Units	Roule EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotlent
gestion													
	Antimony	1.4E+00	mg/kg	1,4E+00	mg/kg	{ M	1.0E-06	mg/kg-day	4.0E-04	mg/kg-day	, N/A	N/A	2.5E-03
	Arsenic Cadmium	3,0E+01	mg/kg	3.0E+01	mg/kg	} M	2.15-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	7.1E-02
	Caomium	2.9E+00	mg/kg	2.9€+00	mg/kg	M	2.1E-08	mg/kg-day	1.0E-03	mg/kg-day	N/A	N/A	2.1E-03
		1.6E+02	mg/kg	1.6E+02	mg/kg	M	1.1E-04	mg/kg-day	3.0E-03	mg/kg-day	N/A	N/A	3,7E-02
	Copper Lead	6,6E+01	mg/kg	6.6E+01	mg/kg	M	4.7E-05	mg/kg-day	4.0E-02	mg/kg-day	N/A	N/A	1.2E-03
	Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	∣ м ∦	6.0E-04	mg/kg-day	7,0E-02	mg/kg-day	N/A	N/A	8,5E-03
	Mercury	3.5€-01	mg/kg	3.5E-01	mg/kg	M	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	N/A	NVA	8.3E-04
	Vanadium (Total)	5.2E+01	тр/кд	5.2E+01	mg/kg	м	3.7E-05	mg/kg-day	9.0E-03	mg/kg-day	N/A	N/A	4.1E-03 1.3E-01
ermal		· · · · · · · · · · · · · · · · · · ·											
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	{ м	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	N/A	N/A	3.6E-02
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	{ м	3.5E-07	mg/kg-day	1.0E-05	mg/kg-day	N/A	N/A	3.5E-02
	(Total)			1				ì			 	<u> </u>	7.0E-02

(1) Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

TABLE C3-7) CALCULATION OF NON-CAINLER HAZARDS REASONABLE MAXIMUM EXPOSURE

WELLS GAH SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water Exposure Medium: Fish Tissue

Exposure Point: Fillet, Reference Locations Receptor Population: Recreational User

Receptor Age: Adult

Exposure Roule	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)		Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
gestion													
	4,4'-DDE Arador-1260	3.2E-03 6.3E-02	mg/kg mg/kg	3.2E-03 6.3E-02	mg/kg mg/kg	M M	3.0E-07 6.0E-06	mg/kg-day mg/kg-day	N/A 2.0E-05	mg/kg-day mg/kg-day	N/A N/A	N/A N/A	N/A 3.0E-01
	Mercury Selenium (Tolai)	5.3E-01 6.4E-01	mg/kg mg/kg	5.3E-01 6.4E-01	mg/kg mg/kg	M M	5,1E-05 6,2E-05	mg/kg-day mg/kg-day	1.0E-04 5.0E-03	mg/kg-day mg/kg-day	N/A ` N/A	N/A N/A	5.1E-01 1.2E-02 8.2E-01

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Hazard Quotlent = Non-Cancer Intake / Reference Dose

02/19/2003

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Fish_ref.xls [Table C.3-7.27,RME]

⁻⁻ Not detected at this exposure point.

TABLE C'S-(
CALCULATION OF NON-CA...LER HAZARDS
CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Fish Tissue

Exposure Point; Fillet, Reference Locations Receptor Population: Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Vatue	Medium EPC 'Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotient
ngesilon													
	4.4'-DDE Aracior-1260	3.2E-03 6.3E-02	mg/kg mg/kg	3.2E-03 6.3E-02	mg/kg mg/kg	M M	1.5E-07 3.0E-06	mg/kg-day mg/kg-day	N/A 2.0E-05	mg/kg-day mg/kg-day	N/A N/A	N/A N/A	N/A 1,5E-01
	Mercury Selenium (Total)	5.3E-01 6.4E-01	mg/kg mg/kg	5.3E-01 6.4E-01	mg/kg mg/kg	M M	2.6E-05 3.1E-05	mg/kg-day mg/kg-day	1,0E-04 _, 5,0E-03	mg/kg-day mg/kg-day	N/A N/A	N/A N/A	2.6E-01 6.2E-03 4.1E-01

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE CONT.

CALCULATION OF NON-C. R HAZARDS
REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE QU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Fish Tissue

Exposure Point: Fillet, Reference Locations Receptor Population: Recreational User

Receptor Age: Older Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Calculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference Concentration	Reference Concentration Units	Hazard Quotlent
gestion													····
	4,4'-DDE Arocior-1260	3.2E-03 6.3E-02	mg/kg mg/kg	3.2E-03 6.3E-02	mg/kg mg/kg	. М М	3.4E-07 6.8E-08	mg/kg-day mg/kg-day	N/A 2.0E-05	mg/kg-day mg/kg-day	N/A N/A	N/A N/A	N/A 3.4E-01
	Mercury Selenium (Total)	5.3E-01 6.4E-01	mg/kg mg/kg	5.3E-01 6.4E-01	mg/kg mg/kg	M M	5.8E-05 7.0E-05	mg/kg-day mg/kg-day	1,0E-04 5.0E-03	mg/kg-day mg/kg-day	N/A N/A	N/A N/A	5.8 E- 01 1.4 E- 02

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A # Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE C.3-7 CALCULATION OF NON-CA. LER HAZARDS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE QU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Fish Tissue

Exposure Point: Fillet, Reference Locations
Receptor Population: Recreational User

Receptor Age: Older Child

Exposure Route	Chemical of Potential Concern	Medium ÉPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Hazard Celculation (1)	Intake (Non-Cancer)	Intake (Non-Cancer) Units	Reference Dose	Reference Dose Units	Reference : Concentration	Reference Concentration Units	Hazard Quallent
gestion					N								· · · · · · · · · · · · · · · · · · ·
	4,4'-DOE	3.2E-03	mg/kg	3.2E-03	mg/kg	м	1.7E-07	mg/kg-day	N/A	mg/kg-day	N/A	N/A	N/A
	Aroclor-1260	6.3E-02	mg/kg	6.3E-02	mg/kg	м	3,4E-06	mg/kg-day	2.0E-05	mg/kg-day	N/A	N/A	1.7E-01
	Mercury	5.3E-01	mg/kg	5.3E-01	mg/kg	м	2.9E-05	mg/kg-day	1,0E-04	mg/kg-day	N/A	N/A	2.9E-01
	Selenium	6.4E-01	mg/kg	6.4E-01	mg/kg	M	3.5E-05	mg/kg-day	5.0E-03	mg/kg-day	N/A	N/A	7.0 E- 03
	(Total)			,		i		i l					4.7E-0

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Hazard Quotient # Non-Cancer Intake / Reference Dose

fish_ref.xle [Table G.3-7,28,GT]

^{- -} Not detected at this exposure point.

TABLE C.3-8.1.RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium; Surface Water Exposure Point: River/Stream

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal						Ì					- 1
	Arsenic Lead	1.2E+01	μg/ L	1.2E+01	μg/L	М	2.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.6E-08
	Manganese	1.4E+03	μg/L	1.4E+03	μg/L	м	2.8E-06	mg/kg-day	. N/A	(mg/kg-day) ⁻¹	N/A
	Mercury	9.9E-02	. μg/L	9.9E-02	μg/L	• м	2.0E-10	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)				1						3.6E-08

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A ≠ Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer Intake x Cancer Slope Factor

02/19/2003

^{- -} Not detected at this exposure point.

TABLE C.3-8.1.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium; Surface Water Exposure Point: River/Stream

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Dermal Arsenic 1.2E+01 μg/L 1.2E+01 μg/L M 3.5E-09 mg/kg-day 1.5E+00 (m											Concern	
Lead												
	g/kg-day) ⁻¹ 5,3E-	(mg/kg-day) ⁻¹	1.5E+00	mg/kg-day	3.5 E- 09	м	μg/L	1.2E+01	µg/L	1.2E+01	Arsenic	
								Ì	i '		Lead	
	g/kg-day) ⁻¹ N/A	(mg/kg-day) ⁻¹	N/A	mg/kg-day	4.0E-07	м	μ g/L	1.4E+03	μg/L	1.4E+03	Manganese	
		(mg/kg-day) ⁻¹	N/A	mg/kg-day	2.9E-11	м	μg/L	9.9E-02	μg/L	9.9E-02	Mercury	
(Total)	5.3E-										(Total)	

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE C.3-8.2.RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water Exposure Point: River/Stream

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	(Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal											
	Arsenic	1.2E+01	μg/L	1.2€+01	μg/L	м	1.45-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.1E-08
	Lead	1			1						
	Manganese	1.4E+03	μg/L	1.4E+03	μg/L	м	1.6E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Mercury	9.9E-02	μg/L	9.9E-02	μg/L	м	1.1E-10	mg/kg-day	N/A	(mg/kg-day) 1	N/A
	(Total)	<u> </u>	<u></u>								2.1E-08
								•		ure Routes/Pathways	2E-08

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer Intake x Cancer Slope Factor

02/19/2003

^{- -} Not detected at this exposure point.

TABLE C.3-8.2.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water
Exposure Point: River/Stream

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medlum EPC `∀alue	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	(Cancer)	intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal											
	Arsenic	1.25+01	, μg/L	1.2E+01	μg/L	М	2.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.5E-09
	Lead				<u> </u>						
	Manganeşe	1.4E+03	μg/L	1.4E+03	μg/L	M	2.7E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A
	Mercury	9.9E-02	μ _{g/L}	9.9E-02	الوµ ل	M	1.9E-11	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)				<u> </u>						3.5E-09
A-A	4				7,102		<u></u>	Total Risk	Across All Exposi	urė Routes/Pathways	3E-09

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE C.3-8.3.RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water Exposure Point: River/Stream

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ermai	A							İ	<u> </u>		
	Arsenic Lead	1.2E+01	μg/ L -	1.2E+01	μg/L	М .	9.7E-08	. mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.5E-07
•	Manganese	1.4E+03	μg/L	1.4E+03	,⊭g/L	M	1.1E-05		.,,,		
	Mercury	9.9E-02	μg/L	9.9E-02	μg/L	M		mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)	i			- 	! "	7.9E-10	mg/kg-day	N/A	(mg/kg-day)*1	N/A
											1.5E-07

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

⁻⁻ Not detected at this exposure point.

TABLE C.3-8,3,CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scanario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water Exposure Point: River/Stream

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medlum EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	(Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
lemal								<u>!</u>			
	Arsenic Lead .	1.2E+01	µg/L	1.2E+01	μg/L	М	1.1 E- 08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.6E-08
	Manganese	1.4E+03	μg/L	1.4E+03	μg/L	! м	1.2E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Mercury	9.9E+02	<i>,</i> 4g/L	9.9E-02	μg/L	м	8,6E-11	mg/kg-day	N/A	(mg/kg-day)*1	N/A
	(Total)										1.6E-08

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE C.3-8.4 RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium; Surface Water Exposure Point; River/Stream

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medlum EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
rmal						````					
	Arsenic Lead	1,2E+01	μg/L	1.2E+01	μ g/L	м	5.5E-08	mg/kg-day	1.5E+00	(mg/kg-day)* ¹	8.3E-08
	Manganese Mercury	1.4E+03 9.9E-02	μg/L	1.4E+03	μg/L	м	6.4E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)	9.90-02	μg/L	9.9E-02	µg/L	/ M /	4.5E-10	mg/kg-day	N/A	(mg/kg-day) ^{-‡}	N/A

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC ≠ Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE C.3-8.4.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water Exposure Point: River/Stream

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medlum EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	Arsenic	1.25+01	μφ/ι	1.2E+01	μg/L	М	6.9E-09	mg/kg-day	1.5 E+ 00	(mg/kg-day) ⁻¹	1.0E-08
	Lead Manganese Mercury	1.4E+03 9.9E-02	μg/L μg/L	1.4E+03 9.9E-02	μg/L μg/L	M M	8.0E-07 5.6E-11	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A 1.0E-08
	(Total)				<u> </u>			Total Risk	Agross All Exposu	ire Routes/Pathways	

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

⁻ Not detected at this exposure point.

TABLE C.3-8.5.RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point: Wetland

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medlum EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	Arsenic	3.2E+00	μg/L	3.2E+00	μg/L	M	6.4E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	9.5E-09
	Lead Manganese Mercury	5.2E+02 1.3E-01	μg/L μg/L	5.2 E +02 1.3 E -01	μg/L μg/L	M M	1.0E-06 2.6E-10	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A
	(Total)							Total Risk	Across All Exposi	ure Routes/Pathways	9.5E-09 1E-08

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE C.3-8.5.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point: Wetland

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Válue	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ermal	Arsenic Lead	3.2E+00	μg/L	3.2E+00	μg/L	М	9. 3 E-10	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.4Ę-09
	Manganese Mercury (Total)	5.2E+02 1.3E-01	μg/L μg/L	5.2E+02 1.3E-01	μg/L μg/L	M M	1.5E-07 3.8E-11	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

^{- -} Not detected at this exposure point.

⁻EPC = Exposure Point Concentration

TABLE C.3-8.6.RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium; Surface Water

Exposure Point: Wetland

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Arsenic 3.2E+00 μg/L 3.2E+00 μg/L M 3.6E-09 mg/kg-day 1.5E+00 (m		
Magganete	(mg/kg-day)*1	5.5E-0
Mercury 1.3E-01 μg/L 1.3E-01 μ	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A

^{- -} Not detected at this exposure point.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer intake x Cancer Slope Factor

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TABLE C.3-8.6.CT CALCULATION OF CANCER RISKS. CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point: Wetland

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medlum EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	(Cancer)	intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
	Arsenic Lead	3.2E+00	μα/ι	3.2E+00	μg/L	M	6.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	9.1 Ė -10
i	Manganese Mercury (Total)	5.2E+02 1.3E-01	μg/L μg/L	5.2E+02 1.3E-01	μg/L μg/L,	. M M	9.9E-08 2.5E-11	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A

N/A = Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point,

TABLE C.3-8.7.RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point: Wetland

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure * Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal											
	Arseniç	3.2E+00	μg/L	3.2E+00	μg/L	м	2.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.8€-08
	Lead			'							
	Manganese	5.2E+02	μg/L	5.2E+02	μg/L	м	4.1E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Mercury	1.3E-01	μg/L	1.3E-01	μ g/L	м	1,0E-09	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)					!		' ' '			3.8E-08

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE C.3-8.7.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point: Wetland

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	(Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
	Arsenic Lead	3.2E+00	μg/ L	3.2E+00	μg/L	м	2.8E-09	mg/kg-day	1.5E+00	(mg/kg-day)*1	
	Manganese Mercury (Total)	5.2E+02 1.3E-01	μg/L μg/L	5.2E+02 1.3E-01	μg/L μg/L	M M	4.5E-07 1.1E-10	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	4.2E-09 N/A N/A

- - Not detected at this exposure point.

N/A = Not Applicable

EPC ≃ Exposure Point Concentration

TABLE C.3-8.8.RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point: Wetland

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	Arsenic	3.2E+00	μg/L	3.2E+00	μg/L	М	1.5E-08	mg/kg-day	1.5€+00	(mg/kg-day) ⁻¹	2.2E-08
	Lead Manganese Mercury	5.2E+02 1.3E-01	μg/L μg/L	5.2E+02 1.3E-01	μg/L μg/L	M M	2.4E-06 5.9E-10	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A 2.2E-08
	(Total)							Total Risk	Across All Expos	ure Routes/Pathways	2E-08

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer Intake x Cancer Slope Factor

SW_ref.xls (Table C.3-8.8.RME)

⁻ Not detected at this exposure point.

TABLE C.3-8.8.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point; Wetland

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medlum EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)		intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
=:	Arsenic Lead	3.2E+00	μ g/ L	3,2E+00	110/L	M	1.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.7E-09
į	Manganese Mercury (Total)	5.2E+02 1.3E-01	μg/L	5.2E+02 1.3E-01	μg/L μg/L	м м	3.0E-07 7.4E-11	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A 2.7E-09

N/A = Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE C.3-8.9.RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point: Pond/Lake

Receptor Population: Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	bis(2-Ethylhexyl)phtha	2.8 E+0 0	μ g/ L	2.8E+00	μg/L	M	7.4E-08	mg/kg-day	1,45-02	(mg/kg-day) ^{*1}	1.0E-09
	Arsenic	2.8E+00	μg/L	2.8€+00	μg/L	м	7.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1,1E-07
	Lead Manganese Mercury	3.7E+02 1.2E-01	μ ά /Γ	3.7E+02 1.2E-01	hô/r hô/r	M M	9.8E-06 3.0E-09	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A 1.1E-07
Demai	(Total)									(n	A 4F 00
	bis(2-Ethylhexyl)phtha	2.8E+00	μg/L	2.85+00	μg/L	M .	6.7E-07	mg/kg-day	1.4E-02	(mg/kg-day) ⁻¹	9.4E-09
	Arsenic	2.8E+00	μg/L	2.85+00	μgn	м	2.6E-08	mg/kg-day	1,5E+00	(mg/kg-day) ⁻¹	3.9E-08
	Lead Manganese	3.7E+02	μg/L	3.7E+02	μg/L	М	3.5E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Mercury	1.2E-01	μg/L	1.2E-Q1	μg/L	М	1.1E-09	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A 4.8E-08
	(Total)			L.,		<u></u>		Total Risk	Across All Expos	ure Routes/Pathways	2E-07

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE C.3-8.9.CT CALCULATION OF CANCER RISKS: CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point: Pond/Lake

Receptor Population: Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	(Cancer)	intake (Cancer) Units	Cancer Slope Factor	Cancer Stope Factor Units	Cancer Risk
ngestion	bis(2-Ethylhexyi)phtha	2.8E+00	<i>μg/</i> L	2.8E+00	.μg/L	М	1.4E-09	mg/kg-day	1,4E-02	(mg/kg-day) ⁻¹	1.9E-11
	Arsenic	2.8E+00	μ ο /L	2.8E+00	μg/L	м	1.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-09
	Lead Manganese Mercury (Total)	3.7E+02 4.3E-02	μg/L μg/L	3.7E+02 4.3E-02	μg/L μg/L	M M	1.8E-07 2.1E-11	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A 2.0E-09
Dermal	bis(2-Ethylhexyl)phtha	2.8E+00	μ g/L	2,8É+00	μg/L	M	1.2E-08	mg/kg-day	1.4E-02	(mg/kg-day)*1	1.7E-10
	Arsenic	2.85+00	μg/L	2.8E+00	μg/L	М	4,9E-10	mg/kg-day	1.5E+00	(mg/kg-day)*1	7,3E-10
	Lead Manganese Mercury (Total)	3.7E+02 4.3E-02	μ g /L	3.7E+02 4:3E-02	μg/L μg/L	M M	6.6E-08 7.6E-12	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A 9.0E-10
	(10(21)	***************************************						Total Risk	Across All Expos	ure Routes/Pathways	3E-09

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

⁻⁻ Not detected at this exposure point.

TABLE C.3-8.10.RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water Exposure Point: Pond/Lake

Receptor Population: Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	bls(2-Ethylhexyl)phtha	2.8E+00	μg/L	2.8E+00	μg/L	М	8.7E-08	mg/kg-day	1.4E-02	(mg/kg-day) ⁻¹	1.2E-09
	Arsenic Lead	2.85+00	μg/L	∠ 2.8E+00	μg/L	м	8.4 E- 08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.3E-07
į	Manganese Mercury	3.7E+02 1.2E-01	μg/L μg/L	3.7E+02 1.2E-01	μg/L μg/L	М М	1.1E-05 3.5E-09	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A
, Dermal	(Total)							<u> </u>	-		1.3E-07
Demai	bis(2-Ethylhexyl)phtha	2.8E+00	μg/L	2.8E+00	μά/L	M I	2.98-07	mg/kg-day	1.4E-02	(mg/kg-day) ⁻¹	4.0E-09
	Arsenic Lead	2.8E+00	\r@\ L	2.8E+00 `	μg/L	М	1.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.7E-08
	Manganese	3.7E+02	μ g /L	3.7E+02	μg/L	М	1.5E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Mercury (Total)	1.2E-01	μg/L	1.2E-01	μg/L	м	4.6E-10	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A 2.1E-08
			***************************************		· 			Total Risk	Across All.Expos	ure Routes/Pathways	1E-07

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE C.3-8.10.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water Exposure Point: Pond/Lake

Receptor Population: Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medlum EPC Units	Route EPC Value	Raute EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
,	bis(2-Ethylhexyl)phtha	2,8E+00	μg/L	2,8E+00	μ 9/ L	м	1,9E-09	mg/kg-day	1.4E-02	(mg/kg-day)* ¹	2.6 E- 11
	Arsenic Lead	2.8E+00	μ g /L	2.8E+00	μg/L	м	1.8E-09	mg/kg-day	1.55+00	(mg/kg-day)*1	2.7E-09
i i	Manganese Mercury .(Total)	3.7E+02 4.3E-02	μg/L μg/L	3.7E+02 4.3E-02	μ ο/ L	M M	2.4E-07 2.8E-11	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A
	bis(2-Ethylhexyl)phtha	2.8E+00	μg/L	2.8E+00							2.7E-09
	Arsenic			2.05400	μg/L	М	6.1E-09	mg/kg-day	1,4E-02	(mg/kg-day) ⁻¹	8.6E-11
·	Lead	2.8E+00	µg/L	2.8E+00	μ g/L	M ·	2,4E-10	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.6E-10
	Manganese Mercury (Total)	3.7E+02 4.3E-02	μg/L μg/L	3,7E+02 4.3E-02	μg/L μg/L	M	3.2E-08 3.7E-12	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A

^{- -} Not detected at this exposure point.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk # Cancer Intake x Cancer Stope Factor

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Pege 1 of 1

SW_ref.xis [Table C.3-8.10.CT]

TABLE C.3-8.11.RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe; Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point: Pond/Lake

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medlum EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	(Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Dermal	bis(2-Ethylhexyl)phtha	2.8€+00	μg/L	2.8E+00	μg/L	М	1.4E-07	mg/kg-day	1.4E-02	(mg/kg-day) ⁻¹	2.0E-09
	Arsenic	2.8E+00	μg/L	2.8E+00	μg/L .	м	5.5€-09	mg/kg-day	1.5€+00	(mg/kg-day) ⁻¹	8.2E-09
	Manganese Mercury (Total)	3.7E+02 1.2E-01	μg/L μg/L	3.7E+02 1.2E-01	hâyr hâyr	M M	7.5E-07 2.3E-10	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A 1.0E-08
<u> </u>	1 (10/4/)	= -===================================	1			<u></u>	' 	Total Risk	Across All Exposi	ure Routes/Pathways	1E-08

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

⁻⁻ Not detected at this exposure point.

TABLE C.3-8.11.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium; Surface Water Exposure Point: Pond/Lake

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Çancer Risk
Dermal	bis(2-Ethylhexyl)phtha	2.8 E +00	μg/L	2.8E+00	μg/L	М	2.1E-08	mg/kg-day	1.4E-02	(mg/kg-day) ⁻¹	2.9E-10
	Arsenic	2.8E+00	μg/L	2.8E+00	μg/L	М	8.0E-10	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.2E-09
	Manganese Mercury (Total)	3.7E+02 4.3E-02	μg/L μg/L	3.7E+02 4.3E-02	μg/L μg/L	, M , M	1.1E-07 1.2E-11	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A 1.5E-09
<u> </u>	[(Total)]		<u> </u>	l	1			Total Risk	Across All Exposu	ure Routes/Pathways	1E-09

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC * Exposure Point Concentration

Cancer Risk = Cancer Intake x Cancer Slope Factor

SW_ref.xls [Table C.3-8.11.CT]

^{- -} Not detected at this exposure point.

TABLE C.3-8.12,RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point: Pond/Lake

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	. Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ermal											
	bls(2-Ethylhexyl)phtha 2.8E+00 Arsenic 2.8E+00 Lead Manganese 3.7E+02	2.85+00	μg/L	2.8E+00	µg/L	M	8.1E-08	mg/kg-day	1.45-02	(mg/kg-day)"	1.1E-09
		2.8E+00	μg/L	2.8E+00	μg/L	м	3.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.7E-09
		μg/L	3.7E+02	μg/L	l M	4.3E-07	mg/kg-day	N/A	(modles de 0-1	***	
	Mercury (Total)	1.25-01	μg/L	1.2E-01	µg/L	м	1.3E-10	mg/kg-day	· ` * *	(mg/kg-day) ⁻¹	N/A N/A
			<u></u> !								5.8 E- 09

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A ≈ Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer Intake x Cancer Slope Fector

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SW_ref.xis [Table C.3-8,12,RME]

^{- -} Not detected at this exposure point.

TABLE C.3-8.12.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water Exposure Point: Pond/Lake

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medlum EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ermal											
	bis(2-Ethylhexyl)phtha	2.8E+00	μg/L	2.8E+00	µg/L	M	1.3E-08	mg/kg-day	1.4E-02	(mg/kg-day) ⁻¹	1.9€-10
	Arsenic Lead	2.8E+00	μg/L	2.8E+00	μg/L	м	5.2E-10	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	7.9E-10
	Manganese	3.7E+02	μg/L	3.7E+02	μg/L	м	7.1E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Mercury	4.3E-02	μg/L	4,3E-02	μg/L	м	8.2E-12	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)		1							· [9.7E-10

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A ≠ Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE C.3-8.13.RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water Exposure Point: Pond/Lake

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medlum EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ermal											
	bis(2-Ethylhexyl)phtha	2.8E+00	μg/L ,	2.8E+00	µg/L	М	5.6E-07	mg/kg-day	1.4E-02	(mg/kg-day) ⁻¹	7.9 E- 09
	Arsenic Lead	2.8E+00	μg/L	2.8E+00	μg/L	М	2,2E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	3.3E-08
	Manganese	3.7E+02	μg/L,	3.7E+02	μg/L	м	3.0E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Mercury	1.2E-01	µg/L	1.25-01	µg/L	м	9.1E-10	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)		. 1		-				} . [4.1E-08

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point,

TABLE C.3-8.13.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point: Pond/Lake

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	(Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
	(2-Ethylhexyl)phtha	2.8E+00	und								
			μg/L	2.8E+00	μg/L	м	6.2E-08	mg/kg-day	1.4E-02	(mg/kg-day) ⁻¹	8.6E-10
Lea	1	2.8E+00	μg/L	2.8E+00	μ g/L	. M	2.4E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	
	nganese roury	3.7E+02 4.3E-02	μg/L μg/L	3,7E+02 4,3E-02	πն√Ր πά√Ր	М	3.3E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	3.6E-09 N/A
	(Total)		<u> </u>		, A.B.C	м	3.7E-11	mg/kg-day	N/A	(mg/kg-day)*1	N/A

^{- -} Not detected at this exposure point.

N/A = Not Applicable

EPC = Exposure Point Concentration

TABLE C.3-8,14,RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water Exposure Medium: Surface Water Exposure Point: Pond/Lake

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medlum EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	(Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
	bis(2-Ethylhexyl)phtha	2.8E+00	μ _Φ /L	2.8E+00	μg/L	М	3.2E-07	mg/kg-day	1.4E-02	(mg/kg-day)* ¹	155.44
1	Arsenic Lead	2.8E+00	μg/L	2.8E+00	μ _g /L	м	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day)*1	4.5 E- 09
	Manganese Mercury (Total)	3.7E+02 1.2E-01	μg/L μg/L	3.7E+02 1.2E-01	μg/L μg/L	M M	1.7E-06 5.2E-10	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	N/A N/A
Medium-Speci	fic (M) EPC selected for	dek enlaulasia.				<u> </u>		Total Risk	Across All Exposur	e Routes/Pathways	2.3E-08

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

^{- -} Not detected at this exposure point.

TABLE C.3-8.14.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Surface Water

Exposure Medium: Surface Water

Exposure Point: Pond/Lake

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer)	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ermal	bis(2-Ethylhexyl)phtha	2.8E+00	μοπ	2.8E+00	μg/L	м	4.0E-08	mg/kg-day	1.4E-02	(mg/kg-day) ⁻¹	5.7E-10
	Arsenic Lead	2.8E+00	µg/L	2.8E+00	μg/L	м	1.6E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.4E-09
	Manganese Mercury (Total)	3.7E+02 4.3E-02	μg/L μg/L	3.7E+02 4.3E-02	μg/L μg/L	М М	2.1E-07 2.5E-11	mg/kg-day mg/kg-day	N/A N/A	(mg/kg-day)* ¹ (mg/kg-day)* ¹	N/A N/A 2.9E-09

⁽¹⁾ Medium-Specific (M) EPC selected for risk calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

⁻⁻ Not detected at this exposure point.

TABLE C.3-8.15,RMC CALCULATION OF CANCER & REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe; Current/Future Medkim: Sediment Exposure Medium: Sediment Exposure Point: River/Ştream Receptor Population; 1-Day Recreational User Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
gestion				-	-				L		f
	Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Dibenz(a,h)anthracene Indeno(1,2)3-cd)pyrene Phenanthrane Antimony Arsenic Cadmium Chromium Copper Lead Manganese Mercury Vanadium	1.3E+00 1.4E+00 1.6E+00 1.6E+00 2.6E-01 1.5E+00 1.7E+00 3.5E+00 2.6E+01 6.1E+00 3.5E+02 3.4E+02 2.0E+03 6.0E-01 3.4E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1.3E+00 1.4E+00 1.8E+00 2.8E-01 1.5E+00 1.7E+00 3.5E+00 2.6E+01 6.1E+00 3.5E+02 3.4E+02	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	M M M M M M M M M M	2.3E-08 2.5E-08 3.2E-08 4.9E-09 2.6E-08 2.9E-08 6.1E-08 4.6E-07 1.1E-07 6.2E-06 6.0E-06	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	7.3E-01 7.3E-00 7.3E-01 7.3E-02 7.3E-00 7.3E-01 N/A N/A 1.5E+00 N/A N/A N/A	(mg/kg-day)" (mg/kg-day)" (mg/kg-day)" (mg/kg-day)" (mg/kg-day)" (mg/kg-day)" (mg/kg-day)" (mg/kg-day)" (mg/kg-day)" (mg/kg-day)" (mg/kg-day)" (mg/kg-day)" (mg/kg-day)" (mg/kg-day)" (mg/kg-day)"	1.7E-08 1.8E-07 2.3E-08 2.1E-09 3.6E-08 1.9E-08 N/A N/A N/A N/A
	(Total)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3,46701	mg/kg	. M	6.0E-07 ·	mg/kg-day .	N/A	(mg/kg-day)* ⁽	N/A
mai											9.7E-07
	Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Olbenz(a,h)anthracene indeno(1,2,3-cd)pyrene Phenanthrene Arsenic	1.3E+00 1.4E+00 1.8E+00 1.6E+00 2.8E-01 1.5E+00 1.7E+00	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1.3E+00 1.4E+00 1.8E+00 1.6E+00 2.8E-01 1.5E+00 1.7E+00	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	м м м м м	2.3E-08 2.6E-08 3.3E-08 2.9E-08 5.1E-09 2.7E-06 3.0E-08	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	7.3E-01 7.3E+00 7.3E-01 7.3E-02 7.3E-00 7.3E-01 N/A	(mg/kg-day)*1 (mg/kg-day)*1 (mg/kg-day)*1 (mg/kg-day)*1 (mg/kg-day)*1 (mg/kg-day)*1 (mg/kg-day)*1	1.75-08 1.95-07 2.45-08 2.15-09 3.75-08 2.05-08 N/A
i	Cadmium (Total)	2.6E+01 6.1E+00	mg/kg mg/kg	2.6E+01 6.1E+00	mg/kg mg/kg	M M	1.1E-07 8.5E-09	mg/kg-day mg/kg-day	1.5E+00 N/A	(mg/kg-day) ⁻¹	1.7E-07 N/A 4.5E-07

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

TABLE C.3-8.15.CT (CALCULATION OF CANCER RISK CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment
Exposure Medium: Sediment
Exposure Point: River/Stream

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure	Chemical	Medium	Medium	Route	Route	EPC Selected	Intake	Intake	Cancer Slope	Cancer Slope	Cancer
Route	of Potential	EPC	EPC	EPC	EPC	for Risk	(Cancer)	(Cancer)	Factor	Factor Units	Risk
	Concern	Value	Units	Value	Units	Calculation (1)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Units			
gestion			***	,				- 		1	
	Benzo(a)anthracene	1.3E+00	mg/kg .	1.3E+00	mg/kg	м.	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day)"	2.48-09
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	3.6E-09	mg/kg-day	7.3E+00	(mg/kg-day)	2.6E-08
	Benzo(b)fluoranthene	1.85+00	mg/kg	1.8E+00	mg/kg	M·	4.6E-09	mg/kg-day	7,3€-01	(mg/kg-day)"	3.4E-09
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1,6E+00	mg/kg	M-	4.1E-09	mg/kg-day	7.3E-02	(mg/kg-day)*1	3.0E-10
	Dibenz(a,h)anthracene	2.8E-01	·mg/kg	2.8E-01.	mg/kg	М	7.25-10	mg/kg-day	7.3E+00	(mg/kg-day) ¹	5.3E-09
	Indeno(1,2,3-cd)pyrene	1,5E+00	mg/kg	1.5E+00	mg/kg	м.	3.9E-09	mg/kg-day	7.3E-01	(mg/kg-day)	2.85-09
	Phenanthrene	1.75+00	· mg/kg	1.7E+00	mg/kg	М	4,25-09	mg/kg-day	N/A	(mg/kg-day) ^{,1}	N/A
	Antimony	3,5E+00	, mg/kg	3.5E+00	mg/kg	М	8.9E-09	mg/kg-day	. N/A	(mg/kg-day)*1	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	м	6.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) ¹	1.0E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	. м	1.86-08	mg/kg-day	N/A	(mg/kg-day) ^{*1}	N/A
	Chromlum	3.5E+02	mg/kg	3.5E+02	mg/kg	м -	9.08-07	mg/kg-day	N/A	(mg/kg-day) ¹	N/A
	Copper	3,4E+02	mg/kg	3.4E+02	mg/kg	М .	8.8E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	м	5.0E-08	mg/kg-day	N/A	(mg/kg-day) 1	N/A
	Mercury	6.0E-01	mg/kg	8.0E-01	mg/kg	М	1,5E-09	mg/kg-day	N/A	(mg/kg-day)*1	N/A
	Vanadkum	3,4E+01	mg/kg	3,4E+01	mg/kg	М	8.7E-08	mg/kg-day	N/A	(mg/kg-day)	N/A
	(Total)	٠.									1.4E-07
ermai											
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	6.8E-09	mg/kg-day	7.3E-01	(mg/kg-day)	5.0E-09
	Benzo(a)pyrene	1.4E+00	mg/kg '	1.4E+00	mg/kg	M	7.4E-09	mg/kg-day	7.3E+00	(mg/kg-day)	5.4E-08
	Benzo(b)(luoranihene	1.8E+00	mg/kg	1.8E+00	mg⁄kg	M	9.5E-09	mg/kg-day	7.3E-01	(mg/kg-day)	7.0E-09
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.8E+00	mg/kg	M '	8.5€ - 09	mg/kg-day	7.3E-02	(mg/kg-day)"	6.2E-10
	Dibenz(a,h)anthracene	2.86-01	mg/kg	2.8E-01	mg/kg	' м	1.5E-09	mg/kg-day	7.3E+00	(mg/kg-day)	1.1E-08
	Indeno(1,2,3-cd)pyrana	1.5E+00	mg/kg	1.5E+00	mg/kg	' M	8.0E-09	mg/kg-day	7.3E-01	(mg/kg-day)"	5. 6E- 09
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	8.85-09	mg/kg-day	N/A	(mg/kg-day)*	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	. м	3.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4,85,-06
	Cadmium	6.1E+00	mg/kg	6.15+00	mg/kg	W	2.5E-09	mg/kg-day	N/A	(mg/kg-day)	N/A
	(Total)									•	1.3E-07
								Total Plat	Agence All Europe	i iure Routes/Pathways	3E-07

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk # Cancer Intake x Cancer Slope Factor

TABLE C.3-8.18.RME (CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium; Sediment

Exposure Medium: Sediment Exposure Point: River/Stream

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Roule EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
gestion				O CONTRACTOR OF THE PARTY OF TH							
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	5.3E-08	mg/kg-day	7.3E-01	(mg/kg-day)	3.9E-08
	Benzo(a)pyrens	1.4E+00	mg/kg	1.4E+00	mg/kg	М.	5.7E-08	mg/kg-day	7.3E+00	(mg/kg-day)	4.2E-07
	Benzo(b)fluoranthene	1,8E+00	mg/kg	1.8E+00	mg/kg	М. [7.4E-08	mg/kg-day	7,3E-01	(mg/kg-day)"	5.4E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	ј м	6.6E-08	mg/kg-day	7.3E-02	(mg/kg-day)"	4.8E-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8Ε-01	mg/kg	м	1.25-08	mg/kg-day	7.3E+00	(mg/kg-day)"	8.4E-08
	Indeno(1,2,3-cd)pyrene	1.5€+00	mg/kg	1,5E+00	· mg/kg	M	6.2E-08	mg/kg-day	7,3E-01	(mg/kg-day)"	4.5E-08
	Phenanthrene	1,7E+00	.mg/kg	1,7E+00	mg/kg	М .	6,8E-08	mg/kg-day	N/A	(mg/kg-day)*1	N/A
	Antimony	3,5E+00	mg/kg	3.5E+00	mg/kg	м -	1.4E-07	mg/kg-day	N/A	(mg/kg-day)"	N/A
	Arsenic	2.6E+01	mg/kp	2.6E+01	mg/kg	м ј	1,15-06	mg/kg-day	1.55+00	(mg/kg-day) ^{*1}	1,65-06
	Cadmium	6,1E+00	mg/kg	6.1E+00	mg/kg	M I	2.5E-07	mg/kg-day	· N/A	(mg/kg-day) ^{*1}	N/A
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	, w	1.4E-05	mg/kg-day	N/A	(mg/kg-day) ¹¹	N/A
	Copper	3.4E+02	mg/kg	3,4E+02	mg/kg	М :	1.4E-05	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Lead (<u> </u>	ł			1			·
_	Manganese	2.0E+03	mg/kg	2.0E+03	ing/kg	, M	8.1E-05	mg/kg-day	N/A	(mg/kg-day) ^{*1}	N/A
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	M . ·	2,4E-08	mg/kg-day	AUA	(mg/kg-day)"	N/A
	Vanadium	3.4E+01	mg/kg	3.4E+01	mg/kg	М	1.4E-06	mg/kg-day	NA	(mg/kg-day)"	N/A
	(Total)	•	,		,		!				2.3E-06
lermal					ļ					(a	. 45. 00
	Benzo(a)anthracene	1,3E+00	mg/kg	1,3E+00	mg/kg	M	5,8€-08	mg/kg-day	7,3E-01	(mg/kg-day)	4.2E-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	į M	6.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) ¹	4.8E-07
	Senzo(b)fluoranthene	1.8E+00	mg/kg	1,8E+00	mg/kg	М	80÷30,8	mg/kg-day	7.3E-01	(mg/kg-day) ¹	5.98-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M	7.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	5.2E-09
	Dibenz(a,h)anthracene	2.8년-01	mg/kg	2.8E-01	mg/kg	M.	1.3E-08	та/ка-сау	7,3E+00	(mg/kg-day)*	9.2E-08
	Indeno(1,2,3-cd)pyrene	1.55+00	mg/kg	1.5E+00	rng/kg	M	6.7E-06	mg/kg-day	7.3E-01	(mg/kg-day) '	4,98-08
	Phenenthrene	1.7E+00	mg/kg	1.7E+00 .	mg/kg	М	7.4E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Arsenic	2.6E+01	mg/kg	2,6E+0f	mg/kg	м	2.7E-07 ·	mg/kg-day	1.5€+00	(mg/kg-day) ⁻¹	4.1E-07
	Cadmlum	6.1E+00	mg/kg	6,1E+00	mg/kg	М.	2.1E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)			}				1			1.1E-06
	`I ' 'I						1	1	1	l	l

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer Intaka x Cancer Slope Factor

WELLS G&H SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium: Sediment Exposure Medium; Sediment Exposure Point: River/Stream

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

	1	Medium	Medium	Route	Route	EPC Selected	Inteke	Intake	Cancer Slope	Cancer Slope	Cance
Route	of Potential	EPC ·	EPC	EPC	EPC	for Risk	(Cancer)	(Cancer)	Factor	Factor Units	Rak
	Concern	Value	Units	Value	Units	Calculation (1)		Units) sign
geation						 	*****	<u> </u>			
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	м	8.8E-09	mg/kg-day	7.3E-01	(ma/ka-dasa) ¹	6,4E-0
	Senzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	M	9.6E-09	mg/kg-day	7.3E+00		
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.85+00	mg/kg	м	1.2E-08	mg/kg-day	7,3E-01		7.0E-0
	Benzo(k)fkuoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	м	1,1E-08	mg/kg-day	7,3E-07 7,3E-02		8.9E-0
	Olbenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mo/kg	ŀ iii l	1.95-09	mg/kg-day	l I		8.0E-1
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	- M	1.0E-08		7.3E+00		1.48-0
	Phenenthrene	1.7E+00	mg/kg	1,7E+00	mg/kg	M		mg/kg-day,	7.3E-01		7.5E+0
				1112-00	, mgray	M	1.1E-08	mg/kg-day	N/A	(mg/kg-day)	N/A
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	М	2.4E-08	mg/kg-day	N/A	(ma/ka-dav) ⁻¹	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	м	1.8E-07	mg/kg-day	1.5E+00		2.7E-0
	Cadmlum	6.1E+00	mg/kg	6.1E+00	mg/kg	M	4.15-08	mg/kg-day	N/A		N/A
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	l M	2,4E-08	mg/kg-day	N/A		N/A
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	I м· I	2.3E-06	mg/kg-day	N/A		N/A
	Lead							***************************************	/ * ^ }	(rigrigrasy)	IWA
	Малдалезе	2.0E+03	mg/kg	2.0E+03	ma/kp	I м II	1.3E-05	mg/kg-day	N/A	(malka-day) ⁴	N/A
	Mercury	6.0E-01	mg/kg	6,0E-01	mg/kg	M·	4,1E-09	mg/kg-day	N/A		N/A
	Vanadium	3.4E+01	mg/kg	3.4E+01	mg/kg	М	2.3E-07	mg/kg-day	N/A		
	(Total)					ļ. " <u>"</u>	2.02-07	mprg-oay		(mg/kg-oay)	N/A 3.8E-0
armal											5. 4 C-0
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	M	1.9E-08			()	
i	Benzo(a)pyrane	1.4E+00	mg/kg	1.4E+00	mg/kg i	l m l	2.1E-08	mg/kg-day	7.3E-01		1.4E-0
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M		mg/kg-day	7.3E+00		1.5E-0
	Benzo(k)/luorenthene	1.6E+00	mg/kg	1.8E+00	mg/kg	M	2.75-08	mg/kg-day	7.3E-01		2.0E-0
	Dibenz(s,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M M	2.4E-08	mg/kg-day	7.3E-02		1.7E-0
į	Indeno(1,2,3-cd)pyrene	1.6E+00	mg/kg	1.5E+00	mg/kg	i II	4,2E-09	mg/kg-day	7.3E+00		3.1E-0
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	- +	М	2.2E-08	.mg/kg-day	7.3E-01		1.8E-0
	,		iii Marahi .	1.75700	. mg/kg	М	2.55-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Arsenic	2.8E+01	mg/kg	2.6E+01	mg/kg	м	9.0E-08	mg/kg-day	1,5E+00	(ma/ka-day/)*1	1.4E-0
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	. й	7.0E-09	mg/kg-day	N/A	(mg/kg-day)*1 (mg/kg-day)*1	N/A
	(Total)		.					"IN UP JOY	'*^	(*************************************	3.7E-0

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC ≈ Exposure Point Concentration

TABLE C.3-8.17.FM (CALCULATION OF CANCER RISAL REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment

Exposure Point: River/Stream

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	intake (Cancer) Units	Cancer Slope Factor	Cancer Stope Factor Units	Cancer Risk
ngestion				· · · · · · · · · · · · · · · · · · ·							
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	м	9.0 Ę- 08	mg/kg-day	7,3E-01	(mg/kg-day)"	6.6 E- 08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	[м.]	9.86-08	mg/kg-day	7,3E+00	(mg/kg-day) ¹	7.2E-07
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	M	1.3E-07	mg/kg-day	7.3E-01	(mg/kg-day)*1	9.2E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	M I	1.1E-07	mg/kg-day	7.3E-02	(mg/kg-day) ¹	8.2E-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	. 2.8E-01	mg/kg	M .	2.0E-08	mg/kg-day	7.3E+00	(mg/kg-day)**	1.4E-07
	Indeno(1,2,3-cd)pyrene	1,5E+00	mg/kg	1.5E+00	mg/kg	M	1.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	7.75-08
	Phenanthrene	1,7E+00	mg/kg	1.7E+00	mg/kg	М	1.2E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	м	2.5E+07	mg/kg-day	N/A	(mg/kg-day)*1	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	м .	1.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.8E-06
	Cadmium	6.1E+00	mo/kg	6.1E+00	mg/kg] M]	4.3E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Chromium	3.5E+02	mg/kg	3.5E+02	mg/kg	м	2.5E-05	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Copper Lead	3.4E+02	mg/kg	3.4E+02	mg/kg	м	2.4E-05	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	м	1,4E-04	mg/kg-day	N/A	(mg/kg-day) ^{r1}	N/A
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	М	4.2E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Vanadium	3.4E+01	mg/kg	3,4E+01	mg/kg	-M	2.4E-08	mg/kg-day	N/A	(mg/kg-day) ^{*t}	N/A
	(Total)	Ì		-							3.9E-06
)emal											
	Benzo(a)anthracene	1.35+00	mg/kg	1.3E+00	mg/kg	м	9.4€-08	mg/kg-day	7.3E-01	(mg/kg-day)" ¹	6.9€-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	М	1.0E-07	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	7.4E-07
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg ·	М	1.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	9.55,-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg ⋅	1.6E+00	mg/kg	ļ m į	1.2E-07	mg/kg-day	7.3E-02	(mg/kg-day) ¹	8.5E-09
	Dibenz(a,h)anthracene	2,8E-Q1	mg/kg	2.8E-01	mg/kg	M	2.1€-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.5E-07
	Indeno(1,2,3-cd)pyrene	1.5E+00	. mg/kg	1.5E+00	mg/kg	M	1.18-07	mg/kg-day	7.3E-01	(mg/kg-day) ^{*1}	8.0E-08
	Phenanthrene	1.7E+00	mg/kg	1.7€+00	mg/kg	M	1.2E-07	mg/kg-day	. N/A	(mg/kg-day) ⁻¹	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01	'mg/kg	м]	4.4E-07	mg/kg-day	1.5E+00	(mg/kg-day)* ^I	6.6E-07
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	1 м	3,4E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)							ļ.		, "	1.8E-06

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC * Exposure Point Concentration

Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.17.CT (CALCULATION OF CANCER RIS CENTRAL TENDENCY

WELLS GAH SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: River/Stream

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ngestion											- · · · · · · · · · · · · · · · · · · ·
	Benzo(a)anthracene	1.3E+00	mg/kg	1.3E+00	mg/kg	м	9.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	7.2E-09
	Berizo(a)pyrene	1.4E+00	mg/kg	1,4E+00	mg/kg	1 м 🖁	1.1E-08	mg/kg-day	7,3E+00	(mg/kg-day) ^{*1}	7.9E-08
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.8E+00	mg/kg	· м 🛊	1.4E-08	mg/kg-day	7.35-01	(mg/kg-day)* ¹	1.0E-08
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1,6E+00	mg/kg	M	1.2E-08	mg/kg-day	7.3E-02	(mg/kg-day)* ¹	9.0E-10
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	M .	2.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.6E-08
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	1.2E-08	mg/kg-day	7.3E-01	. (mg/kg-day)*1	8.4E-09
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	М	1.3E-06	mg/kg-day	N/A	(mg/kg-day)"	N/A
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	м	2.7€-08	mg/kg-day	N/A	(mg/kg-day) ^{*5}	N/A
	Arsenic	2.8E+01	mg/kg	2.6E+01	mg/kg	М	2.0E-07	mg/kg-day	1.5E+00	(mg/kg-day)"	3.0E-07
	Cadmium	6.1E+00	mg/kg	8.1E+00	mg/kg	м	4.7E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Chramium	3.5E+02	mg/kg	3.5E+02	mg/kg	м	2.7E-06	mg/kg-day	N/A	(mg/kg-day) ¹	N/A
-	Copper	3.4E+02	mg/kg	3.4E+02	ma/ka	1 м	2.6E-06	mg/kg-day	N/A	(mg/kg-day) ¹	N/A
	Lead				, -				-		
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	м	1.55-05	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Mercury	6.0E-01	mg/kg	6.0E-01	mg/kg	. м	4.6E-09	mg/kg-day	N/A	(mg/kg-day) ¹	N/A
	Vanadium	3,4E+01	mg/kg	3.4E+01	mg/kg	М	2.6E-07	rng/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)	;		·					[4.2E-07
ermal											
	Benzo(a)anthracene	1.3E+00	mg/kg	1,3E+00	mg/kg	M	2,1E-08	mg/kg-day	7.3E-01	(mg/kg-day)	1.5E-08
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg∕kg	М -	2,2E-08	mg/kg-day	7.3E+00	(mg/kg-day)"	1;6E-07
	Benzo(b)fluoranthena	1.8E+00	mg/kg	1.8E+00	mg/kg	. M	2.9E-06	mg/kg-day	7.3E-01	(mg/kg-day)*1	2.1E-08
,**	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.8E+00	mg/kg	М	2.6E-08	mg/kg-day	7.3E-02	(mg/kg-day)"	1.9€-09
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	. м	4.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) ^{*1}	3.3E-0E
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	М.	2.4E-08	mg/kg-day	7.3 E- 01	(mg/kg-day)"	1.8E-06
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M ⁻	2.65-08	rng/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Arsenic	2.6E+01	mg/kg	2.65+01	mg/kg	м	9.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) ^{*1}	1.4E-07
	Cadmium	8,1E+00	mg/kg	6.1E+00	mg/kg	м	7.4E-09	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(IsloT)							1			4.0E-07

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.18.R. CALCULATION OF CANCER & REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future Medium: Sediment Exposure Medium: Sediment Exposure Point: River/Stream Receptor Population: 4-Day Recreational User Receptor Age: Young Child

	Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	1.3E+00			ł	Calculation (1)		(Cancer) Units	Factor	Factor Units	Risk
	Benzo(a)pyrene	1.3E+00			-						
	Benzo(k)fluoranthene Dibenz(e,h)enthracene Indeno(1,2,3-cd)pyrene Phenanthrane Antimony Arsenic Cedmium Chromium Copper Lead Manganese Mercury Vanadium	1.4E+00 1.8E+00 1.8E+00 2.8E-01 1.5E+00 1.7E+00 3.5E+00 2.6E+01 6.1E+00 3.5E+02 3.4E+02	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1.3E+00 1.4E+00 1.8E+00 1.6E+00 2.8E+01 1.5E+00 1.7E+00 3.5E+01 8.1E+00 3.5E+02 3.4E+02 2.0E+03 8.0E-01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	M M M M M M M M M	2.1E-07 2.3E-07 2.9E-07 4.8E-08 2.5E-07 2.7E-07 5.7E-07 5.7E-05 5.6E-05	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	7.3E-01 7.3E-00 7.3E-01 7.3E-02 7.3E-00 7.3E-01 N/A N/A N/A N/A N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	1.5E-07 1.7E-06 2.1E-07 1.9E-08 3.4E-07 1.8E-07 N/A N/A 6.5E-06 N/A N/A N/A
	(Total)		mg/kg	3.4E+01	mg/kg	M	5.6E-08	mg/kg-day	N/A	(mg/kg-day)"	N/A N/A
al										}	9.0E-06
E E C Ir P	Senzo(a)anthracene Senzo(a)pyrene senzo(b)fluoranthene senzo(k)fluoranthene senzo(k)fluoranthene slbenz(a,h)anthracene sdeno(1.2.3-cd)pyrene henanthrene rsenic admium (Total)	1.3E+00 1.4E+00 1.8E+00 1.8E+00 2.8E-01 1.5E+00 1.7E+00 2.6E+01 6.1E+00	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1.3E+00 1.4E+00 1.8E+00 1.8E+00 2.8E-01 1.5E+00 1.7E+00 2.6E+01 6.1E+00	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	M M M M M M	2.3E-07 2.5E-07 3.2E-07 2.9E-07 5.0E-08 2.7E-07 3.0E-07 1.1E-06 8.3E-08	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	N/A 1.6E+00	(mg/kg-day)*1 (mg/kg-day)*1 (mg/kg-day)*1 (mg/kg-day)*1 (mg/kg-day)*1 (mg/kg-day)*1 (mg/kg-day)*1 (mg/kg-day)*1	1.7E-07 1.8E-06 2.3E-07 2.16-08 3.7E-07 2.0E-07 N/A

N/A = Not Applicable

EPC = Exposure Point Concentration

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment Exposure Medium: Sediment Exposure Point: River/Stream

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ngestion											L
•	Benzo(a)enthracene	1.3E+00	πg/kg	1.3E+00	mg/kg	! м	2.6E-08				
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	, w	2.9E-08	mg/kg-day	7.3E-01	(mg/kg-day)	1.95-08
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1.85+00	mg/kg	l. m. l	3.7E-08	mg/kg-day	7.3E+00	(mg/kg-day)	2.1E-07
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	м	3.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.7E-08
	Dibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	м	5.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	2,4E-09
	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	M	3.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) ^{*1}	4.2E-08
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.3E-08
	1						0/4E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Antimony	3.5E+00	mg/kg	3.5E+00	mg/kg	м	7.2E-08		' . i		
	Arsenic	2.6E+01	mg/kg	2.6E+01	mg/kg	M	7.2E-08 5.4E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Cadmium	6.1E+00	mg/kg	6.1E+00	mg/kg	M	3.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	8.1E-07
	Спотит	3.5E+02	mg/kg	3.5E+02	mg/kg	M		mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Copper	3.4E+02	mg/kg	3.4E+02	mg/kg	M	7.2E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Lead	[·*)	7.0E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Manganese	2.0E+03	mg/kg	2.0E+03	mg/kg	м					
	Mercury	6.0E-01	mp/kg	6.0E-D1	mg/kg	M	4.0E-05	mg/kg-day	N/A	(mg/kg-day)"	N/A
	Vanadkum	3.4E+01	mg/kg	3.4E+01	mg/kg	~ ~	1.2E-08	mg/kg-day	N/A	(mg/kg-day)*1	N/A
•	(Total)	.				191	7.0E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
smal											1.1 E-Q 6
	Benzo(a)anthracene	1.3E+00	ma/ka	1.3E+00							····
	Benzo(a)pyrene	1.4E+00	mg/kg	1.4E+00	mg/kg	М	5.8E-08	mg/kg-day	7.3E-01	(mg/kg-day)*1	4.2E-08
	Benzo(b)fluoranthene	1.8E+00	mg/kg	1,8E+00	mg/kg	М .	6.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.8€-07
	Benzo(k)fluoranthene	1.6E+00	mg/kg	1.6E+00	mg/kg	М	8.0E-08	mo/kg-day	7.3E-01	(mg/kg-day)**	5.9E-08
	Oibenz(a,h)anthracene	2.8E-01	mg/kg	2.8E-01	mg/kg	М	7.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	5.2E-09
!	Indeno(1,2,3-cd)pyrene	1.5E+00	mg/kg	1.5E+00	mg/kg	М	1.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	9.2E-08
	Phenanthrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	6.7 E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	4.9E-08
			111979	1.72+00	mg/kg	м	7.4E-08	mg/kg-day	N/A	(mg/kg-day)*1	N/A
	Arsenic	2.6E+01	mg/kg	2.6E+01			i	J			
	Cadmium	6.1E+00	mg/kg	8.1E+00	mg/kg	М	2.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	4.1E-07
	(Total)		· ingring	0.15700	mg/kg	М.,	2.1E-08	mg/kg-day	N/A	(mg/kg-day)*1	N/A
				·		lf.			į		1.1E-08

EPC = Exposure Point Concentration

TABLE C.3-8.19.RMc \ CALCULATION OF CANCER RIS... REASONABLE MAXIMUM EXPOSURE

WELLS GAH SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment Exposure Medium: Sediment Exposure Point: Welland

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	intake (Cancer) Unita	Cancer Slope Factor	Cancer Slope Factor Units	Gancer. Risk
geation											
	Benzo(a)anthrecene	3.8E+00	mg/kg	3.8€+00	mg/kg	M	6.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) ¹	4,9E-08
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	ј м	5.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.1E-07
	Senzo(b)fluoranthene	6,0€+00	rng/kg	6.0E+00	mg/kg	м	1.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) ¹	7.7E-08
	Benzo(k)fluoranthene	9.5E+00	mg/kg	9.8E+00	mg/kg	м	1.7E-07	mg/kg-day	7.3E-02	(mg/kg-day) ^{*1}	1,2E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg -	3.5E-01	mg/kg	M	6.15-09	mg/kg-day	7,3E+00	(mg/kg-day) ¹	4.5E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	3.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	2.2E-08
	Phenanthrene	1.25+01	mg/kg	1.2E+01	mg/kg	м	2.0E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.8€-01	mg/kg	м	4.6E-09	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	9.1E-09
	Antimony	1.05+00	mg/kg	1.0E+00	mg/kg	м	1.8E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Arsenic	3.3E+01	mg/kg	3.3€+01	mg/kg	м	5.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) ¹	8.6E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	, w	3,8E-08	mg/kg-day	N/A -	(mg/kg-day) ^{*1}	N/A
	Chromium	4.1E+02	mg/kg	4.1€+02	mg/kg) M	7.2E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
•	Copper Lead	9.3E+01	mg/kg	9.3E+01	· mg/kg	М	1.6E-08	mg/kg-day	N/A	(mg/kg-day)"	N/A
	Manganese	2.1E+02	mg/kg .	2.1E+02	mg/kg	М	3.75-06	mg/kg-day	N/A	(mg/kg-day) ¹	N/A
	Mercury	7.1E+01	mg/kg	7.1E-01	mg/kg	! м ;	1.25-08	mg/kg-day	N/A	(mg/kg-day) ^{r1}	N/A
	Vanadium	9.9E+01	ma/ka	9.9E+01	ma/kp	. м 1	1.7E-06	mg/kg-day	N/A	(mg/kg-day)*1	N/A
	(Total)			•							1.5E-08
ermai						, ,					
	Benzo(a)anthracene	3.8€+00	mg/kg	3.8E+00	mg/kg	M	6.9E-08	mg/kg-day	7,3E-01	(mg/kg-day)	5.0E-08
	Benzo(a)pyrene	3,2E+00	mg/kg	3.2E+00	mg/kg	M	5.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	4.2E-07
	Benzo(b)/fluoranthene	6.0E+00	mg/kg	6,02+00	mg/kg	M	1.1≅-07	mg/kg-day	7,3E-01	(mg/kg-day) ¹	8.0E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.5E+00	mg/kg	м	1,7E-07	mg/kg-day	7.3E-02	(mg/kg-day)"	1.3E-08
	Oibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M	6.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) ^{*1}	4.6E-08
	indeno(1,2,3-cd)pyrene	1,7E+00	rng/kg	1.7€+00	mg/kg	M	3.1E-08	mg/kg-day	7.3E-01	(mg/kg-day)*1	2.2E-08
	Phenanthrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M	2,1€-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.65-01	mg/kg	м	5.1E-09	mg/kg-day	2.0E+00	(mg/kg-day)* ¹	1,05-08
	Araenic	3.3E+01	mg/kg	3.3E+01	mg/kg	м	1.45-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.1E-07
	Cadmlum	2.2E+00	mg/kg	2.2E+00	mg/kg	м	3.0E-09	mg/kg-day	N/A	(mg/kg-day)"	N/A
	(Total)						ľ				8.5E-07

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8,19.CT-(CALCULATION OF CANCER R., CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OUS

Scenario Timetrame: Current/Fyture Medium; Sediment Exposure Medium; Sediment Exposure Point: Wetland Receptor Population: 1-Day Recreational User Receptor Age: Adult

Exposure Route	Chemical of Polential Concern	Medium EPC Value	Medium EPC Unita	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Pactor Units	Cancer Risk
ngestion			<u> </u>					J. Mas]	1	
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	1						
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	М	9.7E-09	mg/kg-day	7.3E-01	(mg/kg-day)* [†]	7.45.00
	Senzo(b)fluoranthene	6.0E+00	mg/kg	1	mg/kg	М	8.1E-09	mg/kg-day	7.3E+00	(mg/kg-day)"	7.1E-09
	Senzo(k)fluoranthene	9.6E+00	mg/kg	6.0E+00 9.6E+00	mg/kg	M	1.55-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.9E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg		mg/kg	M	2.45-08	mg/kg-day	7.3E-02	(mg/kg-day)	1.1E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mo/kg	3.5E-01	mg/kg	Į M	8.9E-10	mg/kg-day	7.3E+00	(mg/kg-day)* ^t	1.8E-09
	Phenanthrene	1.2E+01	,	1.7E+00	mg/kg	м	4.3E-09	mg/kg-day	7.3E-01	(mg/kg-day)*1	6.5E-09
	l	,	mg/kg	1.2E+01	mg/kg	м	3.0E-08	mg/kg-day	N/A	,.	3.2E-09
	Aroclor 1248	2.6E-01	i .		1			gg.uzy	l NA	(mg/kg-day)*1	N/A
		2.00.01	mg/kg	2.6E-01	mg/kg	м	6.6E-10	mg/kg-day	1.0E+00		
	Antimony	1.0€+00		1	1 1	!		in ap norday	1.05+00	(mg/kg-day) ⁻¹	6.65-10
	Arsenic	3.3E+01	mg/kg	1.0€+00	mg/kg	м	2.7E-09	mg/kg-day			
	Cadmium		mg/kg	3.3E+01	mg/kg	м	8,3E-08	/	N/A	(mg/kg-day)**	N/A
	Chromium	2.2E+00	mg/kg	2.25+00	mg/kg	M .	5,5E-09	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1,2E-07
	Copper	4.1E+02	mg/kg	4.1E+02	mg/kg	, i	1.0E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Lead	9.3E+Q1	mg/kg	9.3E+01	mg/kg	, "	2.4E-07	mg/kg-day	N/A	(mg/kg-day)"	N/A
	Manganese		i		'	"" 1	2.46-07	mg/kg-day	N/A	(mg/kg-day)*1	N/A
	Mercury	2,1E+02	mg/kg	2.1E+02	mg/kg	м	F 0.00 A.3	,	ì		
	Vanedium	7.1E-01	mg/kg	7.18-01	mg/kg	M I	5.3E-07	mg/kg-day	N/A	(mg/kg-day)" [N/A
	1	9.9E+01	mg/kg	9.9E+01	mg/kg	M I	1,8E-09	mg/kg-day	N/A	(mg/kg-day)**	N/A
	(Total)	ł				~	2.5E-07	mg/kg-day	N/A	(mg/kg-day)*1	N/A
ımal						Į.	1	ļ	- 1	ſ	2.1E-07
,.	Senzo(a)anthracene	3.8E+00	1								···
	Benzo(a)pyrane	1	mg/kg	3.8E+00	лg/kg	м /	2.0E-08	material and		.	
	Benzo(b)fluoranthene	3.2E+00	mg/kg	3.2E+00	mg/kg	м	1.7E-08	mg/kg-day .	7.3E-01	(mo/kg-day)	1,5E-08
	Benzo(k)fluoranthene	6,0E+00	mg/kg	8.0E+00	mo/kg	м ∦	3.25-08	mg/kg-day		(mg/kg-day)*1	1,25-07
	Dibenz(s,h)anthracens	9.6E+00	mg/kg	9.6E+00	mg/kg	м /	5.1E-06	mg/kg-day	7.3E-01	(mg/kg-day)*1	2.3E-08
	Didensit 2.3	3.5E-01	mg/kg	3.5E-01	mg/kg	Ж I	- 1	mg/kg-day		(mg/kg-day)*1	3.7E-09
	Indeno(1,2,3-cd)pyrene Phenanthrene	1.7E+00	mg/kg	1.7€+00	mg/kg	M	1.8E-0P	mg/kg-day	7.3E+00	(mg/kg-day)*1	1.35-08
	- Hanavilluelle	1.2E+01	mg/kg	1.2E+01	mg/kg	M I	9.05-09	mg/kg-day	7.3€-01	(mg/kg-day) ⁻¹	6.6E-09
	A					·*	6.25-08	mg/k g ∙day	N/A	(mg/kg-day)*1	NVA
	Arodor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	м				1	
]	}	!		· · · · · · · · · · · · · · · · · · ·	1.55-09	mg/kg-day	1.0E+00	(mg/kg-day)* ¹	1.5E-09
	Arsenic	3.3E+01	ma/ka	3.3E+01	mg/kg	м.		1			,,
	Cadmium	2.2E+00	mg/kg	2.2E+00	rng/kg	M	4.0E-08	mg/kg-day	1.5E+00	(mg/kg-day)**	6.0E-08
	(Total)				· rig/ing	м	8.8E-10	mg/kg-day		(mg/kg-day)*1	N/A
	<u> </u>				ſ	i i	ľ	1	ł	· · · · ·	2.5E-07

N/A = Not Applicable

EPC = Exposure Point Concentration

TABLE C.3-8.20.RMs— CALCULATION OF CANCER RIL REASONABLE MAXIMUM EXPOSURE

WELLS GAH SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium: Sediment Exposure Medium: Sediment Exposure Point: Wattand

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cencer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
gestion							4.05.07	ma Oral day	7.3E-01	(mg/kg-day) ⁻¹	1,1E-07
	Benzo(a)anthracene	3,8E+00	mg/kg	3.8E+00	mg/kg	M	1,6E-07	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	9.5E-07
	Benzo(a)pyrane	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.3E-07	mg/kg-day	7.3E-01	(mg/kg-day)* ^t	1.85-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.QE+00	mg/kg	M	2.5E-07	mg/kg-day	7.3E-01 7.3E-02	(mg/kg-day) ¹	2.9E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	3.96-07	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.0E-07
	Dibenz(a,h)anthracens	3.56-01	mg/kg	3.5E-01	mg/kg	M	1.4E-08	mg/kg-day	7.3E-00 7.3E-01	(mg/kg-day) ¹	5.1E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M	80-36,8	mg/kg-day	7.3E-01	(mg/kg-day) ¹	N/A
	Phenanthrene	1.2E+01	mg/kg	1,25+01	mg/kg	M I	4,8E-07	mg/kg-day	. N/A	(IIIg/kg-cay)	1370
	Aroclor 1248	2.6E-01	mg/kg	2.65-01	mg/kg	м.	1.1€-08	mg/kg-day	2,0€+00	(mg/kg-day) ⁻¹	2.1E-08
	Antimony	1.0E+00	mg/kg	1.05+00	mg/kg	м.	4.3E-08	mg/kg-day	N/A	(mg/kg-day)"	N/A
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	м }	1,3E-06	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	2.0E-08
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	8.8E-08	mg/kg-day	N/A	(mg/kg-day)"	N/A
	Chromium	4.1E+02	mg/kg	4,1E+02	mg/kg	M I	1.7E-05	лід/кд-фау	-N/A	(mg/kg-day) ^{*1}	N/A
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	M	3.8E-08	mg/kg-day	N/A	(mg/kg-day) ¹	N/A
	Lead			2.1E+02	mg/kg	"	8.5E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Manganese	2.1E+02	mg/kg	7.1E-01	mg/kg) M	2.9E-08	mo/ko-day	N/A	(mg/kg-day)	N/A
	Mercury	7.1E-01	mg/kg	7.1E-01 9.9E+01		M	4.0E-08	mg/kg-day	N/A	(mg/kg-day)	N/A
	Vanadium (Total)	9.9E+01	mg/kg	9.95+01	mg/kg	· N4	4.02-00	HIGHID-UM Y	100	(1000	3.4E-00
ermal										4 4 4 21	1,2E-07
	Benzo(a)anthracene	3.8€+00	mg/kg	3.8E+00	mg/kg	M	1.7E-07	mg/kg-day	7,3E-01	(mg/kg-day) ¹	
	Benzo(a)pyrene	3.2E+00	mg/kg	3,2E+00	mg/kg	М	1.4E-07	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	1.0E-06
	Benzo(b)ñuoranthene	6.0E+00	mg/kg	6.05+00	mg/kg	M	2.7E-07	mg/kg-day	7,3E-01	(mg/kg-day) ¹	2.0E-0
	Benzo(k)fluoranthene	9.8E+00	mg/kg	9.6€+00	mg/kg	[м	4.3E-07	mg/kg-day	7.3E-02	(mg/kg-day)	3,1E-0
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	j M -	1.8E-08	mg/kg-day	7.3E+00	(mg/kg-day)"	1.1E-0
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	М	7.6E-08	mg/kg-day	7.3E-01	(mg/kg-day)	5.5E-0
	Phenanthrene	1,25+01	mg/kg	1,2E+01	mg/kg	M	5,2E-07	толко-дау	N/A	(mg/kg-day) [*]	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.6E-01	· mg/kg	м	1,3E-08	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	2.5E-0
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	м	3.4E-07	mg/kg-day	1.5E+00	(mg/kg-day)* ⁽	5.0E-0
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	м	7.4E-09	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)			, ,							2.1E-0

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: Wetland

Receptor Population: 1-Day Recreational User Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Valus	Medium EPC Units	Route EPC Value	Route EPC Units	for Risk Calculation (1)	intake (Cancer)	(Cancer) \ Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
gestion						}		-			
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	м	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day)*1	1.9E-08
	Benzo(a)pyrane	3.2E+00	mg/kg	3.2E+00	mg/kg	m	2.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) ¹	1.8E-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	l mi	4.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁽¹	
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	m	6,5E-08	mg/kg-day	7.3E-02	(mg/kg-day) ⁻¹	3,0E-06 4,8E-09
	Olbenz(a,h)anthracene	3.5⊑-01	mg/kg	3.5E-01	mg/kg	l iii l	2.4E-09	mg/kg-day	7.3E+00	(mg/kg-day)**	4.8E-05
	Indeno(1,2,3-cd)pyrane	1.7E+00	ma/ka	1.7E+00	mg/kg	M	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day)*1	8.4E-09
	Phenanthrene	1.25+01	mg/kg	1.2E+01	mg/kg	M	7.9E-08	mg/kg-day	N/A	(mg/kg-day)*1	0.46-09 N/A
	Aroclor 1248	2.65-01	mg/kg	2.6E-01	mg/kg	м	1.8E-09	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	1.6E-09
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	, ,	7,1E-09	mg/kg-day	N/A	(mg/kg-day)*1	N/A
	Arsenic	3.35+01	mg/kg	3.3E+01	mg/kg	I м	2.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) 1	3.3E-07
	Cadmium	2.25+00	rng/kg	2.2E+00	mg/kg	l M	1,5E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	м	2.8E-06	mg/kg-day	N/A	(mg/kg-day)"	N/A
	Copper	9.3E+01	mg/kg	9.3E+01	то/ка	М .	6.3E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	AVA
	Manganese ·	2.1E+02	mg/kg	2.1E+02	mg/kg	м	1.45-06	mg/kg-day	N/A	(mg/kg-day)"	N/A
	Mercury	7,1E-Q1	mg/kg	7.1E-01	mg/kg	м .∦	4.8E-09	mg/kg-day	N/A	(mg/kg-day)* ^f	N/A
	Vanadium (Totai)	9.9E+01	mg/kg	9.9E+01	mg/kg	м	6.7E-07	mg/kg-day	N/A	(mg/kg-day)*5	Ń/A
						1					5.7E+07
emal							-				
	Senzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	М	5,7E-08	mg/kg-day	7,3E-01	(mg/kg-day)*1	4.1E-08
	Benzo(a)pyrene	3,2E+00	mg/kg	3.2E+00	mg/kg	м	4.7E-08	rng/kg-day	7.3E+00	(mg/kg-day) ⁻¹	3.45-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6,05+00	mg/kg	M	9.0E-08	під/ка-дау	7.3E-01	(mg/kg-day) ¹	6.5E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M	1.4E-07	mg/kg-day	7.3E-02	(mg/kg-day)*1	1.0E-08
	Dibenz(e,h)anthracene	3.5€-01	mg/kg	3.5E-01	mg/kg `	м	5.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) ¹	3.8E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	M I	2.5E-Q8	mg/kg-day	7.3E-01	(mg/kg-day)"	1.8E-08
	Phenanthrena	1:2E+01	mg/kg	1.25+01	mg/kg	м.	1.7E-07	mg/kg-day	N/A	(mg/kg-day)* ¹	N/A
	Arodor 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	м	4.25-09	mg/kg-day	1.0€+00	(mg/kg-day) ¹	4,2E-09
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	м	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day)* ⁴	1.7E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	м	2.5E-09	mg/kg-day	N/A	(mg/kg-day)"	N/A
	(Total)		1						1	in wall	6.9E-07

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer Intake x Cancer Slope Factor

CALCULATION OF CANCER') REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment

Exposure Point Wetland Receptor Population; 4-Day Recreational User

Receptor Age: Adult

Exposure Roule	Chemical of Potential Concern	Medium EPC Value	Medium EPC Unite	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	iniske (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
gestion											
	Benzo(a)anthracene	3,8E+00	mg/kg	3.8E+00	mg/kg	. ж	2.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1,9E-07
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	, и	2.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) ¹	1.6E-06
	Benzo(b)fluoranthene	6,0E+00	mg/kg	6.0E+00	mg/kg	M	4.2E-07	mg/kg-day	7.3E-01	(mg/kg-day)*1	3.1E-07
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9,6E+00	mg/kg	l M	6.7E-07	mg/kg-day	7,3E-02	(mg/kg-day)"	4.9E-08
	Oibenz(a,h)anthracens	3,5E-01	mg/kg	3.5E-01	mg/kg '	M·	2,4E-08	mg/kg-day	7.3E+00	(mg/kg-day)"	1.8E-07
	Indeno(1,2,3-cd)pyrene	1,75+00	mg/kg	1.7E+00	mg/kg	м	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) [*]	8.7E-08
	Phenanthrene	1.2E+01	mg/kg	1,2E+01	mg/kg	M	8.2E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Arodor 1248	2,6E-01	mg/kg	2.6E-01	mg/kg	м	1.8E-08	mg/kg-day	2.0E+00	(mg/kg-day) ^{*1}	3.65-08
	Antimony	1,0E+00	mg/kg	1,0E+00	mg/kg	ј м]	7.3E-08	mg/kg-day	N/A	(mg/kg-day)"	N/A
	Arsenio .	3.3E+01	mg/kg	3.3E+01	mg/kg	М (2.3E-08	mg/kg-day	1.5€+00	(mg/kg-day)*1	3.4E-08
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	j M	1.5E-07	mg/kg-day	N/A	(mg/xg-day)"	N/A
	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	Mi	2,9E-05	mg/kg-day	N/A	(mg/kg-day)* ¹	N/A
	Copper Lego	9.3E+01	mg/kg	9.3E+01	mg/kg	M	6.58-06	mg/kg-day	N/A	(mg/kg-day)"	N/A
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	м	1.55-05	mg/kg-day	N/A	(mg/kg-day)	N/A
	Mercury	7.1E-01.	mo/kg	7.1E-01	mg/kg	м	5.0E-08	mg/kg-day	N/A	(mg/kg-day)	N/A
	Vansdium	9.9E+01	mg/kg	9,95+01	mg/kg	l M	6.9E-08	mg/kg-day	N/A	(mg/kg-day)	N/A
•	(Total)	0.00.00	***************************************				0,000				5.9E-06
ermal									<u> </u>		
	Benzo(a)anthracene	3.8E+00	mg/kg	3,8€+00	mg/kg	M	2,8E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	- 2.0E-07
	Banzo(a)pyrene	3,2E+00	mg/kg	3.2E+00	mg/kg	M	2.3E-07	mg/kg-day	7.3E+00	(mg/kg-day)* ¹	1.7E-05
	Benzo(b)fluoranthene	6,0€+00	mg/kg	6.0E+00	mg/kg	M	4.4E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	3.2E-07
	Benzo(k)fluoranthane	9.6E+00	mg/kg :	9.6E+00	mg/kg	M	6.9E-07	mg/kg-day	7.3E-02	(mg/kg-day) ⁽¹	5.1E-08
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	М	2.5E-08	mg/kg-day	7.3E+00	(mg/kg-day)"	1.8E-07
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	₩	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day)"	9.0E-08
•	Phenanihrene	1.2E+01	mg/kg	1.2E+01	mg/kg	M,	8.5E-07	mg/kg-day	N/A	(mg/kg-day)*1	N/A
	Aroclor 1248	2.6E-01	mg/kg	2.85-01	mg/kg	м	2.0E-08	mg/kg-day	2.0E+00	(mg/kg-day) ⁻¹	4.1E-08
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	м	5.5E-07	mg/kg-day	1.5E+00	(mg/kg-day)"	8.2E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	M	1.2E-08	mg/kg-day	' N/A	(mg/kg-day) ¹	N/A
	' (Total)										3.4E-0

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer intake x Cancer Slope Factor

TABLE 0.3-8.21 UT CALCULATION OF CANCER RISHS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe; Current/Future

Medium: Sediment

Exposure Medium: Sediment

Exposure Point: Wetland

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Polential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	(Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
çestlan				·							
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	mg/kg	м	2.9E-08	mg/kg-day	7,3E-01	(mg/kg-day) ¹	2.1E-08
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	2.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) ^{*1}	1.8E-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6,0E+00	mg/kg	м	4.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) ^{*1}	3.4E-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9,6E+00	mg/kg	M	7,3E-08	mg/kg-day	7.3E-02	(mg/kg-day) ^{*1}	5.3E-09
	Dibenz(a,h)anthracene	3.5E-01 ·	mg/kg	3.5E-01	mg/kg	ј м	2.7E-09	mg/kg-day	7,35+00	(mg/kg-day) ⁻¹	1.95-08
	indeno(1,2,3-cd)pyrene	1,7E+00	mg/kg	1.7E+00	mg/kg	. м	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) ¹	9.5E-09
	Phenanthrene	1.25+01	mg/kg	1.2E+01	mg/kg	М	8.9E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Arodor 1248	2.6E-01	mg/kg	2,65-01	mg/kg	. м	2.0E-09	mg/kg-day	1.0E+00	(mg/kg-day) ⁻¹	2.0E-09
	Antimony	1.0E+00	mg/kg	1.0E+00	mg/kg	м	6.0E-09	mg/kg-day	, N/A	(mg/kg-day)* ¹	N/A
	Arsenic	3.3E+01	mo/kg	3.3E+01	mg/kg	M	2.5E-07	mg/kg-day	1.5E+00	(mg/kg-day)* [†]	3,7E-07
	Cadmium	2.25+00	mg/kg	2.2E+00	mg/kg	м	1.7E-08	mg/kg-day	N/A	(mg/kg-day)* ¹	N/A
	Chromium	4.1E+02	mo/kg	4.1E+02	mg/kg	м .	3.1E-06	mg/kg-day	N/A	(mg/kg-day) ^{*t}	N/A
	Copper - Lead	9,3E+01	mg/kg	9.3E+01	mg/kg	M	7.1E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Manganese	2.1E+02	mg/kg	2.1E+02	mg/kg	М .	1.6E-06	mg/kg-day	N/A	(mg/kg-day) ^{*1}	N/A
•	Mercury	7.1E-01	mo/kg	7.1E-01	ntgrkg	M	5.4E-09	mg/kg-day	N/A	(mg/kg-day)	N/A
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	M	7.6E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)								ļ	,	6.4E-07
ermal											
	Benzo(a)anthracene	3.8E+00	mg/kg	3.82+00	ma/ka	M	6.0E-08	mg/kg-day	7,3E-01	(mg/kg-day)	4.4E-08
	Benzo(a)pyrene	. 3.2E+00	mo/kg	3.2E+00	mg/kg	M	5.0E-08	mg/kg-day	7.36+00	(mg/kg-day) ¹	3.7E-07
	Benzo(b)fluoranthene	6.0E+00	ma/ka	6.0E+00	mg/kg	M	9.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) ¹	7.0E-08
	Benzo(k)fluoranthene Dibenz(a,h)anthracene	9.6E+00	mg/kg	9.6E+00	mg/kg	М	1,55-07	mg/kg-day	7,35-02	(mg/kg-day)	1,1E-08
		3,5E-01	mo/ko	3.55-01	mg/kg	М	5,52-09	mg/kg-day	7.35+00	(mg/kg-day)	4,05-08
	Indeno(1,2,3-cd)pyrene Phenanthrene	1.7E+00	mg/kg	1,75+00	mg/kg	M	2.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) 1	2.0E-08
	rnenanurene	1.2E+01	mg/kg	1.2E+01	mg/kg	М	1.9E-07	-mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Arodor 1248	2.65-01	mg/kg	2.6E-01	mg/kg	М	4.5E-09	mg/kg-day	1.0E+00	(mg/kg-day)* ¹	4:5E-09
	Arsenic	3.3E+01	mg/kg	3,3E+01	mg/kg	. м	1.2E-07	mg/kg-day	t.5E+00	(mg/kg-day)"	1.8E-07
	Cadmium	2.2E+00	mg/kg	2.2E+00	rng/kg	М.	2.6E-09	mg/kg-day	N/A	(mg/kg-day)* ⁽	N/A
	(Total)					1		}			7.4E-07

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer Intake x Cancer Stope Factor

TABLE C.3-8.22.RME (CALCULATION OF CANCER RIL REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium; Sediment

Exposure Medium: Sediment Exposure Point: Wetland

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Roule	Chemical of Potential	Medium EPC	Medium EPC	Route EPC	Route EPC	EPC Selected (or Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Stope Factor Units	Cancer Risk
	Concern	Value	Units	'Value	' Units	Carculation(1)		Quita			
gestion									7.3E-01	(mg/kg-day) ⁻¹	4.5E-07
	Benzo(a)anthracene	3,8E+00	mg/kg	3.8E+00	mg/kg	М	6.2E-07	mg/kg-day		(mg/kg-day)*1	3,8E-08
	Вепхо(в)ругеле	3.2E+00	mg/kg	3.2E+00	mg/kg	. м	5.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	7.2E-07
	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	9,8∉-07	mg/kg-day	7.3E-01	(mg/kg-day)* ¹	1.1E-07
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.8E+00	mg/kg	M	1.6E-06	mg/kg-day	7.38-02	(mg/kg-day) ¹	4.2E-07
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	M .	5,75-08	mg/kg-day	7.3E+00	(mg/kg-day) ¹	2.0E-07
	Indeno(1,2,3-cd)pyrene	1.75:+00	· mg/kg	1,7E+00	mg/kg	M	2.8E-07	mg/kg-day	7,3E-01		N/A
	Phenanthrens	1.2E+01	mg/kg	1,2E+01	mg/kg	M	1,95-06	mg/kg-day	N/A	(mg/kg-day) ¹	NIA
	Arodor 1248	2.8E-01	mg/kg	2.6E-01	mg/kg	м	4.3E-06	mg/kg-day	2.0E+00	(mg/kg-day)"	8,5E-08
	Antimony	1.0E+00	- mg/kg	1.0E+00	ma/ka	l M 1	1,76-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Arsenic	3,3E+01	mg/kg	3,3E+01	mg/kg	- M -	5,3E-06	mg/kg-day	1.5E+00	(mg/kg-day)"	8.0E-06
	Cadmium	2.2E+00	mg/kg	2.2E+00	mg/kg	l M	3.5E-07	mg/kg-day	N/A	(mg/kg-day) ¹	N/A
	Chromlum	4.1E+02	mg/kg	4.1E+02	rng/kg	. w	6.7E-05	mo/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Copper	9.3E+01	mg/kg	9.3E+01	mg/kg	м	1.5E-05	mg/kg-day	N/A	(mg/kg-day)*1	-N/A
	Lead]							İ
	Manganese	2.1E+02	ла/ка	2.1E+02	mo/ko	l M	3,4E-05	mg/kg-day	N/A	(mg/kg-day)"	N/A
	Mercury	7.1E-01	mg/kg	7.1E-01	mg/kg	l M∗	1,2E-07	mg/kg-day	N/A	(mg/kg-day)"	' N/A
	Vanadium	9.9E+01	mg/kg	9.9E+01	mg/kg	l м :	1.6E-05	mg/kg-day	N/A	(mg/kg-day) ^{*1}	N/A
•	(Total)	Didd: 47					!				1.4E-05
Dermal			<u> </u>				0.05.07		7.3E-01	(mg/kg-day)"	5.0E-07
	. Benzo(a)anthracens	、3.8€+00	mg/kg	3.8€+00	mg/kg	M	6.8E-07	mg/kg-day	7.3E+00	(mg/kg-day)*1	4.1E-08
	Benzo(a)pyrene	3,2E+00	mg/kg	3.2E+00	mg/kg	M .	5.7E-07	-mg/kg-day -mg/kg-day	7.3E-01	(mg/kg-day)"	7.8E-07
	Benzo(b)/luoranthene	6.0E+00	mg/kg	6.05+00	mg/kg	. M	4.1E-06	1	7.3E-02	(mg/kg-day)*1	1,2E-07
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	М .	1.7E-06	mg/kg-day mg/kg-day	7:3E+00	(mg/kg-day) ⁻¹	4.5E-07
	Olbenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	М	6.2E-08	1	7.3E-01	(mg/kg-day) ⁻¹	2,2E-07
	Indeno(1,2,3-cd)pyrena	1,7E+00	mg/kg	1.7E+00	mg/kg	М	3.0E-07	mg/kg-day	N/A	(mg/kg-day)	N/A
	Phenanthrene	1,2E+01	mg/kg	1,2E+01	mg/kg	M	2,15-06	mg/kg-day	IWA.	(mile influence)	'
	Aroclor 1248	2.6E-01	mg/kg	2.8E-01	mg/kg	м	5.0E-08	mg/kg-day	2.0€+00	(mg/kg-day) ¹	1.0E-07
	Arsenic	3.3E+01	mg/kg	3,3E+01	mg/kg-	- M	1.3E-06	mg/kg-day	1.5€+00	(mg/kg-day)"	2.0E-06
	Cadmium	2.2E+00	ma/ka	2.2E+00	mg/kg	м	3.0E-08	mg/kg-day	N/A	(mg/kg-day) ¹	N/A
	(Total)		1								8.3E-06
			l	l	.1			1	حب سب	aure Routes/Pathways	2E-05

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer Intake x Cancer Slope Factor

. CALCULATION OF CANCER A. CENTRAL TENDENCY

WELLS GAH SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment

Exposure Point; Welland

Receptor Population: 4-Day Recreational User Receptor Age: Young Child

Exposure Roule	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Risk
eallon					mg/kg	м	7.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	5.7E-08
	Benzo(a)anthracene	3.8E+00	mg/kg	3.8E+00	1	M M	6.5E-08	mg/kg-day	7,3E+00	(mg/kg-day)	4.7E-07
•	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M ·	1,2E-07	mg/kg-day	7.3E-01	(mg/kg-day) [*]	9,0E-08
•	Benzo(b)fluoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	M	2.0E-07	mg/kg-day	7.3E-02	(mg/kg-day) ¹	1,42-08
	Benzo(k)fluoranthene	9.6E+00	mg/kg	9.6E+00	mg/kg	M (7.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) ⁻¹	5,2E-08
	Dibenz(a,h)anthracene	3,55-01	mg/kg	3,5E-01	mg/kg		3.5E-08	mg/kg-day	7.3E-01	(mg/kg-day)"	2.5E-08
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	М	3.5E-00 2.4E-07	mg/kg-day	N/A	(mg/kg-day) ¹	N/A
	Phenanthrene	1,2E+01	mg/kg	1,2E+01	mg/kg	М	2.42-07	lighth-rath	,		
	Arocior 1248	2.6E-01	mg/kg	2.6E-01	mg/kg	м	5.3E-09	mg/kg-day	1,05+00	(mg/kg-day)	5.3E-09
					! . '	м	2,1E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Antimorry	1.0E+00	mg/kg	1.0E+00	mg∕kg ·		6.7E-07	mg/kg-day	1.52+00	(mg/kg-dBy)"	1.0E-06
	Arsenic	3.3E+01	mg/kg	3.3E+01	mg/kg	· M	4.4E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Cadmium	2,2E+00	mgAg	2.2E+00	mg/kg	М	8.3E-06	mg/kg-day	N/A	(mg/kg-day)	N/A
•	Chromium	4.1E+02	mg/kg	4.1E+02	mg/kg	м			N/A	(mg/kg-day) ^{*1}	N/A
	Copper	9.3E+01	mg/kg	9,35+01	ma/kg	М	1,95-08	mg/kg-day	. ···	(mg/kg-usy)	li .
	Lead			! .		ļ .			N/A	(mg/kg-day)"	N/A
	Manganésé	2.1E+02	mg/kg	2.1E+02	mg/kg	M.	4,3E-06	mg/kg-day	N/A	(mg/kg-day)	N/A
		7.1E-01	mo/kg	7.1E-01	mg/kg	М	1.4E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Mercury	9.9E+01	mg/kg	9.9€+01	mg/kg	M	2.0€-06	mg/kg-day	N/A	(unduration)	1.7E-0
	Vanadium (Total)								<u> </u>		
emai					 		1.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) ⁻¹	1.2E-01
	Benzo(a)anthracene	3,6E+00	mg/kg	3,8€+00	mg/kg	М	1.4E-07	mg/kg-day	7.3E+00	(mg/kg-day) ^{*†}	1.0E-0
	Benzo(a)pyrene	3.2E+00	mg/kg	3.2E+00	mg/kg	M	1.4E-07 2.7E-07	mg/kg-day	7,3E-01	(mg/kg-day)"1	2.0E-0
	Banzo(b)/Juoranthene	6.0E+00	mg/kg	6.0E+00	mg/kg	М		mg/kg-day	7,3E-02	(mg/kg-day)*	3.1E-0
	Senzo(k)/luoranthene	9,8E+00	mg/kg	9.65,+00	mg/kg	M M	4.3E-07	1	7.3E+00	(mg/kg-day)*	1.15-0
	Dibenz(a,h)anthracene	3.5E-01	mg/kg	3.5E-01	mg/kg	. M-	1,6E-08	mg/kg-day	7.3E-01	(mg/kg-day)*1	5,5E-0
	Indeno(1,2,3-cd)pyrene	1.7E+00	mg/kg	1.7E+00	mg/kg	М	7.6E-08	mg/kg-day	N/A	(mg/kg-day)*	N/A
	Phenanthrane	1,2E+01	mg/kg	1,2E+01	mg/kg	. М	5.2E-07	mg/kg-day	IN/A	/mg-mg-may)	
	Aroclor 1248	2.6E-01	mg/kg	2,6E-01	mg/kg	м	1.3E-08	mg/kg-day	1.0E+00	(mg/kg-day)*1	1,3€-€
	Arodor 1249	1 2.00-01				1	ľ		4 45.00	(mg/kg-day)"	5.0E-
		3.3E+01	mg/kg	3.3E+01	mg/kg	м	3,4E-07	mg/kg-day	1,5€+00	(mg/kg-day) ¹	N/A
	Arsenic	2.2E+00	mg/kg	2,2E+00	ma/ka	м	7.48-09	mg/kg-day	N/A	((tithirth-nex)	2.1E-
	Cadmium	1	1		1	1		1	1		*.16*
	(Total	}[l	i	1	ı	H	1		osure Routes/Pathway	a 4E-0

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

Cancer Risk = Cancer Intake x Cancer Slope Factor

TABLE C.3-8.23.RME(CALCULATION OF CANCER HUNS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe; Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: Pond/Lake

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medlum EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ngestion											
	Antimony	1.4E+00	mg/kg	1.4E+00	mg/kg	м	2.4E-08	mg/kg-day	N/A	(mg/kg-day) ⁻¹	
	Arsenic	3.0€+01	mg/kg	3.0E+01	mg/kg	M-	5.25-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	7.8€-07
	Cadmium	2.9E+00	mg/kg	2.9E+00	mg/kg	м	5.1E-08	mg/kg-day	N/A	(mg/kg-day) ¹	N/A
÷	Chromlum	1.6E+02	mg/kg	1.6E+02	mg/kg	М	2.7E-06	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Copper	6.6É+01	mg/kg	6.6€+01	mg/kg	м	1,1 E-06	mg/kg-day	N/A	(mg/kg-day) ^{,1}	
,	Lead Manganese	8.4E+02	mg/kg	8.4E+02	mg/kg	м	1.5E-05	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	Mercury	3.5E-01	mg/kg	3.5E-01	mg/kg	M I	6,1E-09	mg/kg-day	N/A	(mg/kg-day) ¹	1965
	Vanadium	5.2E+01	mg/kg	5.2E+01	mg/kg	M	9.0E-07	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)			7,22,41	, , , , , , , , , , , , , , , , , , ,	.,,		mgmg au	, , , , , ,	()	7,8E-07
ermal											,
	Arsenic	3.0E+01	mg/kg	3.0E+01	mg/kg	M	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) ⁻¹	1.9E-07
	Cadmlum	2,9E+00	mg/kg	2,9E+00	mg/kg	М	4.0E-09	mg/kg-day	N/A	(mg/kg-day) ⁻¹	N/A
	(Total)	ļ									1.9E-07
								Total Rick	Acrose All Evros	ure Routes/Pathways	1E-06

(1) Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

TABLE C.3-8.23.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: Pond/Lake

Receptor Population: 1-Day Recreational User

Receptor Age: Adult

Exposure Royte	Chemical of Potential Concern	Medium EPC Value	Medlum EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ngestion	Antimony Arsenic Cadmium Chromium Copper Lead Manganese Mercury Vanadium (Total)	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E+01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	M M M M M M	3.6E-09 7.6E-08 7.4E-09 3.9E-07 1.7E-07 2.1E-06 8.9E-10 1.3E-07	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	N/A 1.5E+00 N/A N/A N/A N/A N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	1.1E-07 N/A N/A N/A N/A
Dermal	Arsenic Cadmium (Total)	3.0E+01 2,9E+00	mg/kg mg/kg	3.0E+01 2.9E+00	mg/kg mg/kg	M M	3,6E-08 1.2E-09	mg/kg-day mg/kg-day	1.5E+00 N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ sure Routes/Pathways	5.5E-08 N/A 5.5E-08

(1) Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

TABLE C.3-8.24.RME CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: Pond/Lake

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ngestion	Antimony Arsenic Cadmium Chromium Copper Lead Manganese Mercury Vanadium (Total)	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1,4E+00 3,0E+01 2,9E+00 1,8E+02 6,6E+01 6,4E+02 3,5E-01 5,2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	M M M M M M	5.7E-08 1.2E-06 1.2E-07 6.3E-06 2.7E-06 3.4E-05 1.4E-08 2.1E-06	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	N/A 1.5E+00 N/A N/A N/A N/A N/A	(mg/kg-day)* (mg/kg-day)* (mg/kg-day)* (mg/kg-day)* (mg/kg-day)* (mg/kg-day)* (mg/kg-day)* (mg/kg-day)* (mg/kg-day)*	1.8E-06 N/A N/A N/A N/A
	Arsenic Cadmium (Total)	3.0E+01 2.9E+00	mg/kg mg/kg	3.0E+01 2.9E+00	mg/kg mg/kg	M M	3.1E-07 9.9E-09	mg/kg-day mg/kg-day	1.5E+00 N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	4.6E-07 N/A 4.6E-07

N/A ≠ Not Applicable

EPC ■ Exposure Point Concentration

TABLE C.3-8.24.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium; Sediment

Exposure Medium; Sediment Exposure Point: Pond/Lake

Receptor Population: 1-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medlum EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intak e (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ngestion	Antimony Arsenic Cadmium Chromium Copper Lead Manganese Mercury Vanadium (Total)	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	M M M M M M	9.5E-09 2.0E-07 2.0E-08 1.1E-06 4.5E-07 5.7E-06 2.4E-09 3.5E-07	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	N/A 1.5E+00 N/A N/A N/A N/A N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	3.0E-07 N/A N/A N/A N/A 3.0E-07
Dermal	Arsenic Cadmium (Total)	3.0E+01 2.9E+00	mg/kg mg/kg	3.0E+01 2.9E+00	mg/kg mg/kg	M M	1.0E-07 3.3E-09	mg/kg-day mg/kg-day	1.5E+00 N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ sure Routes/Pathways	1.5E-07 N/A 1.5E-07

⁽¹⁾ Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC ≠ Exposure Point Concentration

TABLE C.3-8.25.RME CALCULATION OF CANCER RISKS. REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: Pond/Lake

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medlum EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
Ingestion	Antimony Arsenic Cadmium Chromium Copper Lead Manganese Mercury Vanadium (Total)	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	M M M M M M	9,8E-08 2.1E-06 2.0E-07 1.1E-05 4.6E-06 5.8E-05 2.4E-08 3.6E-06	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	N/A 1.5E+00 N/A N/A N/A N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	3.1E-06 N/A N/A N/A N/A 3.1E-06
Dermal	Arsenic Cadmium (Total)	3.0E+01 2.9E+00	mg/kg mg/kg	3.0E+01 2.9E+00	mg/kg mg/kg	M M	5.0E-07 1.6E-08	mg/kg-day mg/kg-day	1.5E+00 N/A	(mg/kg-day)' ' (mg/kg-day)' ' sure Routes/Pathways	7.5E-07 N/A 7.5E-07

(1) Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

TABLE C.3-8.25.CT (CALCULATION OF CANCER RIGAS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: Pond/Lake

Receptor Population: 4-Day Recreational User

Receptor Age: Adult

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
ngestion	Antimony Arsenic Cadmium Chromium Copper Lead Manganese Mercury Vanadium (Total)	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	M M M M M M	1.1E-08 2.3E-07 2.2E-08 1.2E-06 5.0E-07 6.4E-06 2.7E-09 3.9E-07	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	N/A 1.5E+00 N/A N/A N/A N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	3.4E-07 N/A N/A N/A N/A 3.4E-07
Dermal	Arsenic Cadmium (Total)	3.0E+01 2.9E+00	mg/kg mg/kg	3,0E+01 2.9E+00	mg/kg mg/kg	M M	1.1E-07 3.5E-09	mg/kg-day mg/kg-day	1.5E+00 N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	1.6E-07 N/A 1.6E-07

(1) Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration

CALCULATION OF CANCER RISKS REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OUS

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point: Pond/Lake.

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medium EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
	Antimony Arsenic Cadmium Chromium Copper Lead Manganese Mercury Vanadium (Total)	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	M M M M M M	2.3E-07 4.9E-06 4.7E-07 2.5E-05 1.1E-05 1.4E-04 5.7E-08 8.4E-06	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	N/A 1.5E+00 N/A N/A N/A N/A N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	7.3E-06 N/A N/A N/A N/A 7.3E-08
	Arsenic Cadmlum (Total)	3.0E+01 2.9E+00	mg/kg mg/kg	3.0E+01 2.9E+00	mg/kg mg/kg	M M	1.2E-06 4.0E-08	mg/kg-day mg/kg-day	1.5E+00 N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹	1.8E-06 N/A 1.8E-06

N/A = Not Applicable

EPC = Exposure Point Concentration

TABLE C.3-8.26.CT CALCULATION OF CANCER RISKS CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

Medium: Sediment

Exposure Medium: Sediment Exposure Point; Pond/Lake

Receptor Population: 4-Day Recreational User

Receptor Age: Young Child

Exposure Route	Chemical of Potential Concern	Medlum EPC Value	Medium EPC Units	Route EPC Value	Route EPC Units	EPC Selected for Risk Calculation (1)	Intake (Cancer)	Intake (Cancer) Units	Cancer Slope Factor	Cancer Slope Factor Units	Cancer Risk
gestion	Antimony Arsenic Cadmium Chromium Copper Lead Manganese Mercury Vanadium (Total)	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	1.4E+00 3.0E+01 2.9E+00 1.6E+02 6.6E+01 8.4E+02 3.5E-01 5.2E+01	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	M M M M M M	2,8E-08 6.1E-07 5.9E-08 3,2E-06 1,3E-06 1,7E-05 7,1E-09 1.0E-06	mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day mg/kg-day	N/A 1.5E+00 N/A N/A N/A N/A N/A N/A	(mg/kg-day) ¹ (mg/kg-day) ¹ (mg/kg-day) ¹ (mg/kg-day) ¹ (mg/kg-day) ¹ (mg/kg-day) ¹ (mg/kg-day) ¹ (mg/kg-day) ¹	9.1E-07 N/A N/A N/A N/A 9.1E-07
Dermal	Arsenic Cadmium (Total)	3.0E+01 2.9E+00	mg/kg mg/kg	3.0E+01 2.9E+00	mg/kg mg/kg	M M	3.1E-07 9.9E-09	mg/kg-day mg/kg-day	1.5E+00 N/A	(mg/kg-day) ⁻¹ (mg/kg-day) ⁻¹ sure Routes/Pathway	4.6E-07 N/A 4.6E-07

(1) Medium-Specific (M) EPC selected for hazard calculation.

N/A = Not Applicable

EPC = Exposure Point Concentration